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2014 - 2015 Academic Calendar

Fall Semester 2014
Spring Semester 2015
Summer Semester 2015

Fall Semester 2014 (20151)

Session 1	Session 2	Session 3
Faculty Returns	August 18	First Day of Classes
August 20	August 20	October 14
Schedule Adjustment (Drop/Add) Period Ends	August 27	August 27
October 21	Distance Learning Midterm Exams	October 10, 11
N/A	N/A	Midterm Grades Due to Registrar (11:00 a.m.)
October 17	N/A	N/A
Last Day to Withdraw ("W") or Change to "Audit"	November 3	September 25
November 19	Last Day of Classes	December 9
October 10	December 9	Final Exams
December 10-16	Last Day of Class	Last Day of Class
Distance Learning Final Exams	December 12, 13	October 10, 11
December 12, 13	Last Day of Term for Students	December 16
October 10	December 9	Last Day of Term for Faculty
December 17	October 13	December 9
Final Grades Due to Registrar (11:00 a.m.)	December 17	October 13
December 17	Graduation Application Deadline	November 28
Dates College is Closed - Fall 2014	September 1	Labor Day
November 11	Veterans' Day	November 26-30

Thanksgiving Break	Dec. 19 - Jan. 4	Winter Holiday Break

Spring Semester 2015 (20152)

Session 1	Session 2	Session 3
Faculty Returns	January 8	Staff Returns
January 5	First Day of Classes	January 12
January 12	March 6	Schedule Adjustment (Drop/Add) Period Ends
January 20	January 20	March 13
Distance Learning Midterm Exams	March 6, 7	N/A
N/A	Midterm Grades Due to Registrar (11:00 a.m.)	March 10
N/A	N/A	Last Day to Withdraw ("W") or Change to "Audit"
April 1	February 17	April 17
Last Day of Classes	May 4	March 4
May 4	Final Exams	May 5-11
Last Day of Class	Last Day of Class	Distance Learning Final Exams
May 1, 2	February 27, 28	May 1, 2
Last Day of Term for Students	May 11	March 4
May 4	Last Day of Term for Faculty	May 12
March 5	May 4	Final Grades Due to Registrar (11:00 a.m.)
May 12	March 5	May 12
Graduation Application Deadline	April 3	Graduation Ceremonies
May 9	Dates College is Closed - Spring 2015	January 19
Martin Luther King Jr. Day	March 23-29	Spring Break

Summer Semester 2015 (20153)

Session 1	Session 2	Session 3
First Day of Classes	May 26	May 26
July 6	Schedule Adjustment (Drop/Add) Period Ends	June 2
June 2	July 13	Distance Learning Midterm Exam
June 26, 27	N/A	N/A
Last Day to Withdraw ("W") or Change to "Audit"	July 14	June 19
July 30	Last Day of Classes	August 11
July 1	August 11	Final Exams
Last Day of Class	Last Day of Class	Last Day of Class
Distance Learning Final Exams	August 7, 8	June 26, 27
August 7, 8	Last Day of Term for Students	August 11
July 1	August 11	Last Day of Term for Faculty
August 11	July 1	August 11
Final Grades Due to Registrar (11:00 a.m.)	August 12	July 2
August 12	Graduation Application Deadline	July 10
Dates College is Closed - Summer 2015	May 25	Memorial Day

Academic Advising

Academic Assistance
Academic Advisors
Career Center
Excess Hours Advisory Statement
Disability Support Services
Faculty Advisors
Florida Virtual Campus
Health Counseling
NWF2UWF
Placement Testing and Developmental Education

Academic Assistance

Northwest Florida State College utilizes a comprehensive advising model which supports students in obtaining their academic goals. Academic advising and educational planning for students is offered through a variety of means and is available to assist students with course and program selection for academic goal completion. All first time-in college, degree seeking students are required to meet with an Academic Advisor prior to the first semester of enrollment. Students are encouraged to schedule an appointment with an advisor at any of the seven locations. At most locations, walk-ins are welcome.

Students who have not chosen a major or are undecided will be required to visit the Career Center to complete career assessments to help determine an appropriate career field based on interests and aptitude.
Academic Advisors will assist with the review of transcripts for course suggestions prior to an official course evaluation being completed, guide students towards the completion of pre-requisite requirements to the desired transfer institution, and provide resources to ensure academic success.

Academic Advisors

Academic Advisors will assist students with program planning, course selection, and graduation or transfer requirements. All first time-in college, degree seeking students are required to meet with an Academic Advisor prior to the first semester of enrollment to further explore educational goals and the various programs offered by the college.
All degree-seeking students required to enroll in developmental instruction based on placement testing must meet with an advisor prior to their first semester of enrollment at the college. Students must also continue to work with an advisor throughout the duration of their developmental education courses. Student must consult with an Academic Advisor before completely withdrawing from the College.
Academic Advisors are available at the following locations:
Niceville Campus: Student Services Center
Fort Walton Beach Campus: Building 4, Room 403A
Eglin Center: Education Center, Building 251
Hurlburt Field Center: Education Center, Building 90220
Chautauqua Center: DeFuniak Springs
Robert L. F. Sikes Education Center: Crestview
South Walton Center: Santa Rosa Beach

Placement Testing and Developmental Education

Some students may be exempt from Developmental placement testing and developmental education requirements. Advisors will utilize an advising questionnaire to determine exemption eligibility per

Alternative Developmental Instruction	Placement Testing
College and Personal Success Classes	Placement Chart
Developmental Exit Exam	Repeats and Attempts

Developmental Education Overview

The Developmental Education Department provides classes to develop students' skills in English, reading and math as well as study skills and test taking strategies in[[permalink=55|tooltip:{'title':1}]] %title%[[/permalink]], a college credit class. The department offers courses designed to improve the academic skills of students to prepare them for success in their college level courses, career fields, and/or the workplace.
Free instructional support also is provided with walk-in Math tutoring in the Math Lab and individual tutoring appointments for a variety of subjects in the Academic Success Center. Online tutoring is also available through RaiderNet.
Successful completion of the developmental requirement is defined as:
A grade of "C" or higher in each required developmental course and
Attainment of a passing score on each required developmental exit examination.
Students enrolled in developmental courses may, at the same time, take college credit courses for which they are qualified. In this manner, a student may begin earning credits that apply toward his/her program of study while completing developmental requirements.

Placement Testing

A student's placement test scores ensure accurate placement in Developmental courses. However, some students are exempt from placement testing, although they may opt to take the placement test in order to gauge their readiness for college-level work.

Exempt Students

Exempt students are defined by Florida Administrative Code 6A-10.0315 and Florida Statute 1008.30 as Active Duty Military students or students who have graduated from a Florida high shool since 2007 and are not required to take a placement test or take Developmental Education courses. Exempt students who choose to take a placement test to measure their college readiness are not bound by the scores to enter developmental education; however, they may elect to enroll in developmental education. See the Placement Chart below for course placement scores. Any advisor or the appropriate department chair can provide the permission required for some courses.

Non-Exempt Students

Non-exempt students whose entry level placement scores are below the levels specified in Florida Administrative Code are required to enroll in the appropriate developmental courses. They must take the placement test and will be placed based on their scores, as outlined in the Placement Chart.

Placement Chart

Math Placement Levels

TEST	[[permalink=45|tooltip:{'title':1}]][[/permalink]]	[[permalink=46|tooltip:{'title':1}]][[/permalink]]	[[permalink=537|tooltip:{'title':1}]][[/permalink]] - by Special Permission	[[permalink=538|tooltip:{'title':1}]][[/permalink]] - by Special Permission	[[permalink=47|tooltip:{'title':1}]][[/permalink]]	[[permalink=48|tooltip:{'title':1}]][[/permalink]] or higher
PERT	50-95	96-113	105-109	110-113	114-122	123-150
ACT	≤ 18 PERT Required	≤ 18 PERT Required	≤ 18 PERT Required	≤ 18 PERT Required	19-20	21
SAT	≤ 439 PERT Required	≤ 439 PERT Required	≤ 439 PERT Required	≤ 439 PERT Required	440-499	500

Reading Placement Levels

TEST

[[permalink=49|tooltip:{'title':1}]][[/permalink]]

[[permalink=50|tooltip:{'title':1}]][[/permalink]]

[[permalink=539|tooltip:{'title':1}]][[/permalink]] -by Special Permission

[[permalink=44|tooltip:{'title':1}]][[/permalink]]

PERT

50-83

84-105

96-105

106-150 & Writing 103-150

ACT

≤ 18 PERT Required

≤ 18 PERT Required

≤ 18 PERT Required

Reading ≥ 19 & English ≥ 17

SAT

≤ 439 PERT Required

≤ 439 PERT Required

≤ 439 PERT Required

440

English Placement Levels

TEST

[[permalink=52|tooltip:{'title':1}]][[/permalink]]

[[permalink=53|tooltip:{'title':1}]][[/permalink]]

[[permalink=540|tooltip:{'title':1}]][[/permalink]] - by Special Permission

[[permalink=54|tooltip:{'title':1}]][[/permalink]]

[[permalink=44|tooltip:{'title':1}]][[/permalink]]

PERT

50-89

90-102

100-102

103-116 Strongly Recommended

103-150 & Reading 106-150

ACT

≤ 16 PERT Required

≤ 16 PERT Required

≤ 16 PERT Required

17-20

17

SAT

≤ 439 PERT Required

≤ 439 PERT Required

≤ 439 PERT Required

440-499

440

Developmental Exit Examination

The Developmental Educuation Department requires that a student successfully complete a departmental exit examination at the close of each developmental course sequence in which he/she is required to enroll. Accordingly, a departmental exit examination will be administered in each developmental subject area in coordination with the final course in the developmental English, mathematics, and reading sequences. In order to proceed into college credit course work in the subject area, a student must successfully complete both the developmental course and the appropriate exit examination.

Alternative Developmental Instruction

Florida law requires that all students whose placement test scores indicate the need for remediation be given the opportunity to satisfy the remediation requirement through developmental instruction or through alternate instructional options. Examples of alternate options include independent study, non-credit courses, and instruction through other colleges and private providers. Students who elect to pursue one of the alternate options must meet with an Academic Advisor prior to registration in order to discuss the impact of the choice on his/her degree progress.

Repeat Enrollments and Attempts in Developmental Courses

Per Florida Statute, a student is eligible for no more than three attempts to successfully complete a given developmental course. All official enrollments after Summer of 1997 are considered attempts, regardless of the grade received. In documented cases of hardship or extenuating circumstances, an exception to the requirement may be granted. Exceptions must be appealed through the Registrar prior to registration. However, if a withdrawal is processed prior to the close of the Drop/Add period, or if audit status is granted prior to the close of the Drop/Add period, the enrollment will not be counted as an attempt. Students may not audit a developmental course unless advance approval is granted through the Office of Academic Affairs. If a student receives a grade of D, F, W, X, or U in a developmental course, he/she may repeat the course to improve the grade and meet developmental requirements. On the third attempt, however, the student will be awarded the letter grade earned (A, B, C, D, F, S, U, or P) and will not be allowed to withdraw or to re-enroll. The prohibition for re-enrollment extends to any public postsecondary institution in Florida.

Once a student has exhausted his/her course attempts in a given developmental area, the only ways to satisfy the developmental requirement are: a) retake the placement examination and demonstrate a score above the established minimum for that subject area, or b) provide documentation of successful completion of an equivalent or higher-level course at a private postsecondary institution. Students not eligible to re-enroll in a given developmental course may, however, continue enrollment at the college in other developmental courses, or in other courses for which they are eligible. In the latter case, an appeal through Enrollment Services may be necessary to continue enrollment.

3rd and 4th Attempts

Florida Statutes also mandate that after the second attempt in a given developmental course, a student will be required to pay the full cost of instruction (approximately four times the usual matriculation fees) to repeat the course. In documented cases of financial hardship or extenuating circumstances, an exception to the full cost requirement may be granted. Exceptions must be appealed through the Registrar prior to registration.

Alternatives for Students No Longer Eligible for College Developmental Enrollment

Once a student has exhausted his/her course attempts in a given developmental area, the only ways to satisfy the developmental requirement are: a) retake the placement examination and demonstrate a score above the established minimum for that subject area, or b) provide documentation of successful completion of an equivalent or higher-level course at a postsecondary institution. NWFSC is committed to student success and has developed several strategies for students in this circumstance. The student should work closely with an Academic Advisor to identify alternatives for which he/she is eligible and to develop a plan for continued study. These strategies are also appropriate for an individual who is subject to the full cost requirement and is unable to afford the increased cost of enrollment.

The student may continue enrollment in other appropriate developmental courses, or continue enrollment in other appropriate developmental and college credit courses and pursue one of or a combination of the following strategies. After an appropriate skill-building effort, the student may then retake the placement exam.

Enroll in an appropriate alternate developmental course in the subject area

Enroll in an adult basic education class(es) to build skills in the given area

Pursue individualized study in the Academic Success Center and/or Math Lab to build skills in the given area

Work with a college tutor to build skills in the given area

Enroll in a college non-credit basic skill refresher course in the given subject/skill area

Attend a Skill Refresher Workshop(s) in the given subject/skill area

The student may consider a revised program of study which does not carry a developmental requirement. The college offers several college credit and vocational certificates for which placement testing and developmental instruction are not applicable. Students pursuing an A.S. degree may wish to change to a companion college credit certificate which offers the technical skills needed for employment. After completion of the certificate courses, the student may acquire sufficient skills to perform better on the placement examination and eventually progress to an associate degree program of study. See the "[[permalink=22|same:{'title':1}]]Certificates[[/permalink]]" section of this catalog.

The student may temporarily "stop-out" of credit courses, concentrate on skill development, through his/her own resources, then retake the placement examination.

The student may enroll in an equivalent or higher level course in the subject area at another postsecondary institution. Upon successful completion of that course work, the student may transfer the course back to NWFSC and/or re-take the placement exam. Students wishing to pursue this option should work closely with an advisor to be sure the alternate course(s) selected will satisfy the developmental requirement. Ideally, the student should submit a transient study form and secure advance approval. Depending on the nature and level of the transfer course, the student may still need to demonstrate minimum skills through the placement exam.

College and Personal Success Classes

Courses focusing on college and personal success strategies are beneficial to a student's academic career and can be used as an elective in some degree programs. NWFSC offers the following college credit courses:

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[[permalink=56|tooltip:{'title':1}]][[/permalink]]: [[permalink=56|tooltip:{'title':1}]]%prefix% %code%[[/permalink]] is required for Presidential Scholarship students.

and placement options. Advisors recommend each student complete placement testing regardless of exemption status. Research shows that students not prepared for college-level course work benefit from developmental education courses that prepare them for subsequent college-level courses.

Please see the

Alternative Developmental Instruction
College and Personal Success Classes
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PERT	50-95	96-113	105-109	110-113	114-122	123-150

ACT	≤ 18 PERT Required	≤ 18 PERT Required	≤ 18 PERT Required	≤ 18 PERT Required	19-20	21
SAT	≤ 439 PERT Required	≤ 439 PERT Required	≤ 439 PERT Required	≤ 439 PERT Required	440-499	500

Reading Placement Levels

TEST

[[permalink=49|tooltip:{'title':1}]][[/permalink]]

[[permalink=50|tooltip:{'title':1}]][[/permalink]]

[[permalink=539|tooltip:{'title':1}]][[/permalink]] -by Special Permission

[[permalink=44|tooltip:{'title':1}]][[/permalink]]

PERT

50-83

84-105

96-105

106-150 & Writing 103-150

ACT

≤ 18 PERT Required

≤ 18 PERT Required

≤ 18 PERT Required

Reading ≥ 19 & English ≥ 17

SAT

≤ 439 PERT Required

≤ 439 PERT Required

≤ 439 PERT Required

440

English Placement Levels

TEST

[[permalink=52|tooltip:{'title':1}]][[/permalink]]

[[permalink=53|tooltip:{'title':1}]][[/permalink]]

[[permalink=540|tooltip:{'title':1}]][[/permalink]] - by Special Permission

[[permalink=54|tooltip:{'title':1}]][[/permalink]]

[[permalink=44|tooltip:{'title':1}]][[/permalink]]

PERT

50-89

90-102

100-102

103-116 Strongly Recommended

103-150 & Reading 106-150

ACT

≤ 16 PERT Required

≤ 16 PERT Required

≤ 16 PERT Required

17-20

17

SAT

≤ 439 PERT Required

≤ 439 PERT Required

≤ 439 PERT Required

440-499

440

Developmental Exit Examination

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Florida Statutes also mandate that after the second attempt in a given developmental course, a student will be required to pay the full cost of instruction (approximately four times the usual matriculation fees) to repeat the course. In documented cases of financial hardship or extenuating circumstances, an exception to the full cost requirement may be granted. Exceptions must be appealed through the Registrar prior to registration.

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The student may continue enrollment in other appropriate developmental courses, or continue enrollment in other appropriate developmental and college credit courses and pursue one of or a combination of the following strategies. After an appropriate skill-building effort, the student may then retake the placement exam.
Enroll in an appropriate alternate developmental course in the subject area
Enroll in an adult basic education class(es) to build skills in the given area
Pursue individualized study in the Academic Success Center and/or Math Lab to build skills in the given area
Work with a college tutor to build skills in the given area
Enroll in a college non-credit basic skill refresher course in the given subject/skill area
Attend a Skill Refresher Workshop(s) in the given subject/skill area
The student may consider a revised program of study which does not carry a developmental requirement. The college offers several college credit and vocational certificates for which placement testing and developmental instruction are not applicable. Students pursuing an A.S. degree may wish to change to a companion college credit certificate which offers the technical skills needed for employment. After completion of the certificate courses, the student may acquire sufficient skills to perform better on the placement examination and eventually progress to an associate degree program of study. See the "[[permalink=22|same:{'title':1}]]Certificates[[/permalink]]" section of this catalog.
The student may temporarily "stop-out" of credit courses, concentrate on skill development, through his/her own resources, then retake the placement examination.
The student may enroll in an equivalent or higher level course in the subject area at another postsecondary institution. Upon successful completion of that course work, the student may transfer the course back to NWFSC and/or re-take the placement exam. Students wishing to pursue this option should work closely with an advisor to be sure the alternate course(s) selected will satisfy the developmental requirement. Ideally, the student should submit a transient study form and secure advance approval.

Depending on the nature and level of the transfer course, the student may still need to demonstrate minimum skills through the placement exam.

College and Personal Success Classes

Courses focusing on college and personal success strategies are beneficial to a student's academic career and can be used as an elective in some degree programs. NWFSC offers the following college credit courses:
[[permalink=55|tooltip:{'title':1}]][/permalink]]: [[permalink=55|tooltip:{'title':1}]]%prefix% %code%[[/permalink]] is a required course for all students enrolled in the first level of developmental instruction of reading, mathematics or English, or for any student that is required to take any two or more developmental courses regardless of the level. It is a co-requisite requirement that must be taken with the student's first developmental course.
[[permalink=56|tooltip:{'title':1}]][/permalink]]: [[permalink=56|tooltip:{'title':1}]]%prefix% %code%[[/permalink]] is required for Presidential Scholarship students.

section of the catalog for complete information on placement in developmental education courses and developmental education exemption.

Faculty Advisors

Students who have already committed to a particular program or know the major area of study they wish to pursue may receive advising in that discipline through the appropriate academic department.
Advanced Technology & Design/Drafting/Graphics Mr. Ray Rickman Bldg. B, (850) 729-5218
Athletics, Health & Fitness Mr. Ramsey Ross Bldg. T, (850) 729-5229
Bachelor of Applied Science Dr. Caisson Vickery Bldg. P, (850) 729-6445
Business Ms. Heidi Gentry-Kolen Bldg. P, (850) 729-5369
Computer Technology Ms. Gay Lynne Brown Bldg. P, (850) 729-5369
Criminal Justice Training Center William Looper Bldg. F, (850) 729-5378
Criminal Justice/Paralegal Studies William Looper Bldg. F, (850) 729-5378
Dental Assisting Ms. Julie Nelson Bldg. E, (850) 729-6444
Early Childhood Education Ms. Beverly Sandlin Bldg. M, (850) 729-5386
EMT/Paramedic/Fire Science/Emergency Management Mr. Barry Reed Bldg. F, (850) 729-4924
English/Communications & Social Sciences Dr. Deborah Fontaine Bldg. E, (850) 729-5390
Humanities, Fine & Performing Arts Dr. Jeremy Ribando Bldg. J, (850) 729-5382
Mathematics/Pre-Engineering Mr. Chris Mizell Bldg. L, (850) 729-5377
Nursing AS/RN Ms. Marty Walker Bldg. E, (850) 729-6400
Radiography Ms. Grace Stewart Bldg. E, (850) 729-6457
Sciences/Biological & Physical Pre-Medical & Pre-Pharmacy Dr. Jon Bryan Bldg. S, (850) 729-5376
In addition, a computerized advising system, called degree audit, is also available to aid department heads, faculty, educational advisors, counselors and students in understanding program requirements and progress toward graduation. Students can access their degree audit by logging on to RaiderNet.

Career Center

Students who are undecided about their future career plans are encouraged to make an appointment with their Academic Advisor or to visit the Career Center in the Student Services Center on the Niceville Campus or Building 2 at the DeFuniak Springs Campus to discuss career opportunities.
The Career Center offers numerous career assessment services, including:
Career counseling
Computerized career exploration programs
Web-based career planning information
College-wide career focus workshops
Job fairs information
Occupational information linked to NWFSC degree and certificate programs

Selected career-related services are also available at the Fort Walton Beach Campus, Chautauqua and Robert L. F. Sikes Education Centers.

Florida Virtual Campus

Florida Virtual Campus (FLVC) allows access to student services and resources for Florida public community colleges, state colleges, universities, and many private institutions. Students may apply for transient status at other Florida institutions, view their student transcripts, run a degree audit or track progress toward graduation. FLVC can be accessed on the NWFSC RaiderNet log on page in the public access area or directly at www.flvc.org.

NWF2UWF

The NWF 2UWF Program offers collaborative academic advising from UWF Transfer Advisors and an on-site 2UWF Program Coordinator located on the NWF State College's Niceville campus. Students will also receive access to UWF services and benefits before they enroll. Students who complete an associate of arts degree at NWF State College are guaranteed admissions at UWF, contingent upon meeting the minimum transfer requirements.
Admission to UWF with no application fee
Convenient transfer of academic records and courses from NWF State College
Affordable bachelor's degree from an accredited and respected public university
Options to complete a bachelor's degree at one of three University of West Florida's locations:
Main Campus - Pensacola
Emerald Coast - Ft. Walton Beach, Eglin and Hurlburt Field Air Force Base
Online Campus
Faculty and staff committed to academic success
Flexible class schedules to meet busy lifestyles
Experienced academic advisors to assist in satisfying degree requirements
Library privileges at both institutions
UWF email account
UWF ID card
To participate in a 2UWF Program a student must:
Meet current admission criteria at a state college partner.
Have earned fewer than 30 credit hours.
Complete an associate of arts degree with a minimum overall combined 2.0 GPA as computed by UWF. (Individual departmental requirements may be higher)
Be in compliance with the code of conduct at a state college and is in good academic standing.
Not attend another institution between the time you graduate from your current state college and enroll at UWF.
Formally enroll in UWF within one year of having completed an associate of arts degree.
Not have previously graduated from a state college partner.

Disability Support Services

NWFSC is committed to the fulfillment of equal educational opportunities to all students. In compliance with the regulations of Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the ADA Amendments Act of 2008, the office of Disability Support Services (DSS) exists to determine appropriate accommodations for qualified students with documented disabilities, to assist students in self-advocacy, and to educate the NWFSC community about disabilities.
Students in need of assistance are encouraged to register with DSS which is located in the Student Services Center on the Niceville campus. Appropriate documentation guidelines are located on the college website. All information is kept confidential.
Students who register may be eligible for accommodations such as, but not limited to, note-taker, scribe, interpreter, extended time for testing, course substitution, use of an audio recording device and tests recorded on tape.
Telephone Device for the Deaf (TDD) numbers are available through the Florida Telecommunication Relay Service:

Voice:	711 or 1-800-955-8770

TDD: 711 or 1-800-955-8771

Students who feel that the College did not respond appropriately to their disability requirements are asked to show NWFSC the particulars of the complaint. Students should first discuss the problem with the Counselor of Students with Disabilities in an attempt to informally resolve the issue. If unable to resolve the issue informally, a student may file a formal student grievance through the office of Disability Support Services. It will be forwarded to the Dean of Students and follow the College's procedures for filing a grievance.

Health Counseling

In case of illness or emergency please call 911. Health Services are not provided on campus.
Students can contact Bridgeway Center, Inc., at the Crisis Hotline at 850-244 -9191 for assistance with domestic violence, sexual assault, AIDS, Victim advocate, substance abuse, and referral services. The Okaloosa AIDS Support and Information system: OASIS provides support at http://aidsoasis.org.
NWFSC Advisors and Counselors maintain local treatment referral services for health conditions such as drug or alcohol abuse, pregnancy and AIDS intervention. Students can contact the Dean of Students for more information.

Excess Hours Advisory Statement

Florida Statutes section 1009.286, establishes an "excess hour" surcharge for a student seeking a baccalaureate degree at a state university. This surcharge only applies to courses taken at a Florida public university and does NOT apply to any programs offered by Northwest Florida State. However, it is critical that students, including those entering Florida colleges, are aware of the potential for additional course fees.
"Excess hours" are defined as hours that go beyond 110% of the hours required for a baccalaureate degree program. For example, if the length of the program is 120 credit hours, the student may be subject to an excess hour surcharge for any credits attempted beyond 132 credit hours (120 X 110%).
All students whose educational plan may include earning a bachelor's degree should make every effort to enroll in and successfully complete those courses that are required for their intended major on their first attempt. Florida college students intending to transfer to a state university should identify a major or "transfer program" early and be advised of admission requirements for that program, including the approved common prerequisites. Course withdrawals and/or repeats, as well as enrollment in courses non-essential to the intended major, may contribute to a potential excess hours surcharge.

Admissions

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Northwest Florida State College is an open-door institution. However, depending on the student's program of study, certain admission criteria must be met. In most cases a student must be able to provide documentation that he/she is no longer enrolled in a K-12 system and is at least 16 years old.

Get Started

It's free to apply to Northwest Florida State College. Apply online at www.nwfsc.edu/admissions.
Apply for Financial Aid. Complete a Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov. NWFSC's school code is 001510. Applications for federal financial aid should be made well in advance of enrollment of courses. Students not meeting the

priority deadline might still qualify for financial aid but may experience delays in receiving financial aid. For more information contact the Financial Aid Office at (850) 729-5370 or visit www.nwfsc.edu/financialaid.
Request official transcripts, as applicable, which include the following: high school or GED transcript, Home Educated Affidavit, official college and/or university transcripts from all institutions attended, and official score reports from CLEP, DANTES, AICE, AP, or IB. Transcripts noted as 'Issued to Student' are not considered official. Please request official transcripts to be sent directly to: Admissions Office: NWFSC, 100 College Boulevard, Niceville, FL 32578
Either submit placement test scores that are less than two years old (ACT, SAT) or take the Postsecondary Education Readiness Test (PERT) at NWFSC. The PERT is free for a student's first attempt. Transfer students who have satisfactorily completed college level English and math courses are not required to take a placement test. Testing is for placement purposes only and is not a criterion for admission. See the Placement Chart in the Instruction section of the catalog for a list of the test scores that correspond to courses.
Northwest Florida State College offers an in-person free orientation for all new or returning students. For more information and dates visit www.nwfsc.edu/orientation.
All first time, college degree seeking students are required to meet with an Academic Advisor before they may register for classes their first semester. Students may schedule an advising appointment, contact an Acadmic Advisor via phone or email or visit one of NWFSC's seven locations on a walk-in basis to discuss the important aspects of their educational goals. While new degree seeking students are required to meet with an Advisor, all students can benefit from a meeting with an Advisor. Academic Advisors will guide you regarding placement testing, college readiness skills and other tools and information to ensure academic success.
Use your college assigned student email. Students are automatically assigned a college student email account during the application for admission process. The student email address serves as the official method of communication to the student from the college. Each applicant will be notified by email of acceptance or non-acceptance, wait list notification for full classes are sent to NWFSC student email and more. For more information and instructions on student email, see the Student Email webpage.
Enroll for classes online at RaiderNet.
Pay fees through RaiderNet or at any NWFSC location. Students need to pay special attention to their payment due dates. Courses could be dropped if fees are not paid on time. Northwest Florida State College offers a variety of financial assistance for students including a tuition payment pay through NelNet. For more information contact the Business Office at (850) 729-5355.
Attend your classes and get involved in Student Life!

Readmission

Any student who has previously attended or applied to NWFSC, and who has not been in attendance within one (1) year (3 semesters) must reapply online at www.nwfsc.edu/admissions to update personal data, verify educational goals and residency. If the student attended another institution in the interim, an official transcript must be submitted from that institution. The student will complete requirements for graduation under the catalog in effect at the time of re-entry.

Transfer Students

A student who has attended any college or university prior to enrolling at NWFSC is considered a transfer student. Transfer students must request that an official transcript(s) of all previous college work be sent directly to the Admissions Office. All re-enrollment forms and supporting documents must be submitted in sufficient time to permit processing and notification of admission status prior to registration. In certain instances, applicants may be conditionally admitted as provided below.

Conditional Admission

An applicant who has completed admission forms, but has not been fully accepted for admissions may be permitted to attend in a "Conditional Admission" status for one (1) term to allow for admission requirements to be met. During this time, any course credit "earned" will not be released until all outstanding requirements have been met. Neither official transcripts nor financial aid will be released for any courses in which the applicant is enrolled. Conditions attached to any enrollment must be satisfied before the end of the term.
One of the opportunities available to high school seniors about to graduate is Conditional Enrollment at the college for the Summer Term. Under this specialized enrollment, graduating seniors may enroll at their own expense in courses during May of the year they are to graduate. Dual Enrollment, Federal Financial Aid and most scholarship opportunities are not available under Conditional Enrollment status.

New Student Orientation

All degree-seeking students who are new to NWFSC are expected to attend the New Student Orientation. New Student Orientation provides students with valuable information about college resources, academic advising and programs. For more information and dates visit www.nwfsc.edu/orientation.

Associate in Arts and Associate in Science Degree Admission Requirements

An applicant for admission to the Associate in Arts or Associate in Science degree programs must be a high school graduate and may be admitted with one of the following:
High School Diploma Florida public high school graduates must have earned a standard high school diploma. An official high school transcript with high school graduation date is required. Applicants who have earned the Florida Certificate of Completion or the Florida Special Diploma should contact the Admissions Office to discuss alternative admission options. Non-Florida public high school graduates must have earned the equivalency of a standard Florida public high school diploma. All other diplomas must be validated. Institutions that are not registered with a department of education from a U.S. state or U.S. territory, or that only offer an exam for diploma, are automatically denied.
State Equivalency Diploma (GED) Students who have received the General Education Diploma (GED) are entitled to admission to all degree programs. An official transcript of the GED results is required for admission.
Home-Educated Students Home-Educated students must complete an Affidavit for Home-Educated Students form verifying high school graduation. These forms may be obtained from the Admissions Office.
Foreign Educated Students Foreign educated students who have earned an education equivalent to a US secondary school education must use one of the agencies sanctioned by the National Association of Credential Evaluation Services, Inc. (NACES) to translate and validate their high school diploma. Students will need to have the official evaluation sent to NWFSC. For more Information please refer to the NACES website at www.naces.org.

Certificate and Applied Technology Diploma Admission Requirements

An applicant for admission to Applied Technology Diploma (ATD), college credit, or career and technical or vocational certificate programs may be admitted without the standard high school diploma or GED high school equivalency diploma provided the program to which the student is applying does not require the high school diploma or equivalent. However, the College will not be able to award federal financial aid unless the student meets the requirements as set forth under the AA and AS admission criteria above. As with all programs at NWFSC, certificate and ATD students must submit official copies of high school transcripts or GED diploma and, if a transfer student, a copy of transcripts from all previously attended postsecondary institutions.

Baccalaureate Degree Admission Requirements

NWFSC is approved by the State of Florida Board of Education to offer baccalaureate degrees. All Bachelor programs are designed to provide a career ladder for those who have already completed an associate degree (or 60 transferrable credits for the Bachelor's in Education degree). All Bachelor applicants must complete the NWFSC online admission and residency materials to apply to their desired program. Applicants must complete the standard Florida foreign language upper division admission requirement. If a student has not completed two years of the same foreign language in high school or six credits in college, or does not qualify for a waiver, the student may be admitted but will need to complete the foreign language requirement before completing the program.

Bachelor of Applied Science in Project Management Bachelor of Applied Science in Management and Supervision

An applicant for admission to the Bachelor of Applied Science in Project Management or Management and Supervision degree program may be admitted with the following:
Completion of an Associate in Science (A.S.) or an Associate in Applied Science (A.A.S.) degree (with a minimum of 60 semester hours) in a professional/technical field. A.A. degree students may be asked to complete additional credits in a professional area

(e.g., accounting, computer science, general business, etc.) in lieu of the additional general education required of the A.S./A.A.S. student.
Completion of all developmental coursework and a minimum of 15 credit hours of transferable general education credit hours.

Bachelor of Science in Nursing

An applicant for admission to the Bachelor of Science in Nursing degree program may be admitted with the following:
Completion of an associate degree nursing program or nursing diploma prior to enrollment.
Completion of all developmental coursework.
Documentation of current Florida RN Licensure. Recent graduates of associate degree nursing programs or Registered Nurses who have recently moved to Florida and have not yet obtained a Florida RN License may apply and may be accepted on a conditional basis for one term or until clinical experiences begin. Conditional status may be removed once the student obtains a current Florida RN License.
Documentation of a grade point average (GPA) of 2.75 or higher in all college credit coursework and a grade of "C" or higher in all Florida Common Course Prerequisites applicable to the RN to BSN degree program. Depending on program capacity, students with less than a 2.75 GPA may be admitted on a provisional basis. However, in all cases, the student must have earned a "C" or higher in all common course prerequisites. Provisional status may be removed if the student earns a GPA of 3.0 or higher for his/her first eight upper division nursing credits at the college. Ideally, prerequisite and general education courses should be completed prior to enrolling in upper division nursing courses; however, all prerequisite and general education courses must be completed by the beginning of the senior year.
Additional pre-enrollment conditions, which include proof of immunizations, CPR verification, drug screen, and background check, must be satisfied prior to registration.

Bachelor of Science in Elementary Education, Bachelor of Science in Middle Grades Mathematics Education, Bachelor of Science in Middle Grades General Science Education

An applicant for admission to the Bachelor of Science in Education degree program may be admitted with the following:
Completion of NWFSC admission and residency materials.
Completion of an Associate in Arts (A.A.) degree from a regionally accredited college or university, or at least 60 semester hours of postsecondary education from a regionally accredited college or university.
Completion of all developmental coursework.
Completion of all general education requirements and lower-division state-mandated common prerequisites with a minimum grade of "C" in each of the prerequisite courses.
Completion of 6 semester hours of coursework with an international or diversity focus, in addition to EDF 2085 -- Introduction to Diversity for Educators.
A minimum cumulative grade point average (GPA) of 2.5 on a 4.0 scale for the general education component of the undergraduate studies or have completed the requirements for a baccalaureate degree with a minimum cumulative grade point average of 2.5 on a 4.0 scale from any approved college or university.
Passing scores on the General Knowledge Test of the Florida Teacher Certification Examination (FTCE).
Agreement to submit to background checks by both the Florida Department of Law Enforcement (FDLE) and the Federal Bureau of Investigation (FBI).

Bachelor of Science in Early Childhood Education, Birth through Four

An applicant for the Bachelor of Science in Early Childhood Education may be admitted with the following:
Completion of NWFSC admission and residency materials.
Completion of state-mandated prerequisites.
Completion of an associate's degree from a regionally accredited institution with a minimum of 60 transferrable semester hours.
Completion of all developmental coursework.
Agreement to submit to fingerprinting as required by Early Childhood facilities.

Second Degree

In recognition that students seeking a second baccalaureate degree have completed a rigorous program of study at a regionally accredited or comparable international institution, some admission and graduation, requirements will be satisfied by virtue of their previous degree. These include Gordon Rule, Foreign Language Entrance Requirement, and General Education. However, this will not preclude prerequisites for the major that happen to be general education courses. NWFSC will also honor the same practice for students who have been awarded a State of Florida Associate of Arts or a baccalaureate degree from a regionally accredited or comparable international institution and are seeking an Associate of Science degree at NWFSC. Students should contact the appropriate department or division office for more information.

Foreign Language Requirement

University or college admission to baccalaureate programs in the State of Florida requires that students demonstrate foreign language competencies. The Florida Department of Education has identified the competencies as successful completion of two sequential credits in high school foreign language, a minimum of 6 credit hours in one foreign language at the college level or an appropriate score on an approved CLEP examination. Native speakers of another language who can demonstrate proficiency by evidence of a secondary high school transcript may petition for a waiver. Students should contact the appropriate baccalaureate department or division office for more information.

Limited Access Programs

Limited access programs have additional admission requirements and a competitive selection process.

Dental Assisting

The Dental Assisting program is accredited by the Commission on Dental Accreditation. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or 211 East Chicago Avenue, Chicago, IL 60611. The program is a three semester Limited Admission Career and Technical or Vocational program. Applicants must possess a high school diploma or its equivalent, as well as satisfy all other NWFSC admission criteria. Program graduates are eligible to sit for the Dental Assisting National Board examination to receive the Certified Dental Assistant (CDA) credential. Contact Dental Assisting at (850) 729-6444 for additional information.

Emergency Medical Technician (EMT)

The Emergency Medical Technician program is accredited by the Committee on Accreditation for the EMS Professions (CoAEMSP). Emergency Medical Technicians are part of the Emergency Medical Services team. EMTs are trained to provide basic life support and transportation of the sick and injured. The EMT program prepares students to apply for the examination to become a Florida licensed and National Registry Emergency Medical Technician Basic.
The Emergency Medical Technician program is 11 credit hours long and is conducted over one (1) semester. Applicants to this program must have a high school diploma or GED and meet other applicable admission criteria (including fingerprinting, a background check and a drug screen). If the number of qualified applicants to the program exceeds the number of openings, students will be accepted using a combination of application points and a random selection process. Contact the EMS Office at (850) 729-4924 for additional information.

Firefighting

Firefighters are trained to extinguish and control fires in response to situations where property, life, or the environment is in danger. At the scene of an emergency, firefighters perform tasks assigned by their commanding officer. Depending on the situation, they may need to provide medical attention, break through debris, operate fire hoses, or entering a burning building. Firefighters are often first responders to car accidents, hear attack scenes, and other medical emergencies that do not involve fire.
The Firefighting Certificate program is one semester that consists of two classes; Fire Basic I and II. Applicants to this program must have a high school diploma or GED and meet other applicable admission criteria. If the number of qualified applicants to the program exceeds the number of openings, students will be accepted using a combination of application points and a random selection process. Contact the Firefighting Office at (850) 729-4924 for additional information.

AS/RN Nursing

This two-year Nursing program, which is fully approved by the Florida Board of Nursing, leads to an Associate in Science (A.S.) in Nursing degree. Current Florida Licensed Practical Nurses (LPNs) may complete the program in three semesters, not including summer. Graduates of the Nursing program are eligible to apply for licensure by examination to become Registered Nurses (RNs). They are also prepared to continue their education, and can smoothly transition into the RN to BSN program offered at NWFSC. The Associate in Science in Nursing has a once-a-year application/admissions process to begin nursing coursework the following Fall semester. Those who plan to apply to the program may wish to complete specified general education coursework to prepare a more competitive application. Applicants must complete a program application in addition to the college application, must meet or exceed the minimum cumulative GPA requirement, and must pass the Nursing Admission Examination in order to be considered for selection into the program. Students selected for this program must meet matriculation criteria, including fingerprinting, a criminal background check, drug screen, and CPR Certification, as required by clinical facilities. Interested students should review all application materials and selection criteria on the Nursing website. Contact the Nursing Department at (850) 729-6400 for additional information.

Paramedic

Paramedics are the highest trained and educated pre-hospital provider of emergency medicine. In the Paramedic program, students are provided the highest quality education to prepare to become competent leaders in the high pace work of Emergency Medical Services. The Paramedic program is three semesters beyond the Emergency Medical Technician Basic level and prepares students to apply for the Florida or National Registry Paramedic board examination. The Paramedic Certificate program is a Limited Admission College Credit Certificate. Students admitted to this program must have a high school diploma or GED and meet other applicable admission criteria (including documentation of current Florida Emergency Medical Technician (EMT) Certification, fingerprinting, a background check and a drug screen). If the number of qualified applicants to the program exceeds the number of openings, students will be accepted using a combination of application points and a random selection process. The curriculum for this program forms the core of the Emergency Medical Services Associate in Science degree program. Contact the EMS Office at (850) 729-4924 for additional information.

Radiography

The Radiography Program is a Limited Access Associate in Science degree program. New students are accepted annually for enrollment in the Fall Term. Students admitted to this program must meet specific admission criteria (including a minimum score of 70 in each section of the HESI exam, a background check and drug screen). Applicants must complete a program application in addition to the college application. Graduates of the program will be eligible to sit for the American Registry of Radiologic Technologists (ARRT) certification exam. Contact the Division of Allied Health at (850) 729-6444 or visit our website for additional application requirements and information.

Welding

The Applied Welding Technologies Program is a Limited Access Certificate program. New students are accepted for enrollment annually in the Fall Term. Students admitted to this program must meet specific admission criteria. The NWFSC Welding program provides you the skills, knowledge, and customized training required to be a journey-level professional welder. Students accepted into the program have the opportunity of obtaining NCCER credentials. Each certificate level is acknowledged by the industry as proof of acquired skills in various forms of welding, cutting, base metal preparation, welding inspection, safety, and metallurgy. Interested students should review all application materials and selection criteria in the Welding program guide. Please contact the Welding Office at (850) 729-5221 or visit the welding website for additional information.

Programs with Additional Admission Requirements

Criminal Justice Training Programs

The Law Enforcement Basic and Correctional Officer Basic Career and Technical or Vocational Certificate Programs are certified through the Florida Department of Law Enforcement (FDLE). The college is designated as Florida Criminal Justice Training Center Number 21 and students enrolling in these certificate programs must meet FDLE requirements (including fingerprinting and background check), possess a high school diploma or its equivalent, successfully complete the Florida Basic Abilities Test (FBAT), as well as satisfy all other NWFSC admission standards. Contact the Criminal Justice Program at (850) 729-5378 for additional information.

Emergency Medical Services

The Associate in Science in Emergency Medical Services (EMS) is limited to students who are licensed EMT/Paramedics. Contact the EMS Program Office at (850) 729-4924 for additional information.

Fine and Performing Arts

Some Fine and Performing Arts classes are open only by audition. Contact the Humanities, Fine and Performing Arts Division at (850) 729-5382 for additional information.

Reserve Officers' Training Corps (ROTC)

The U.S. Army Reserve Officers' Training Corps (ROTC) program provides an outstanding opportunity for military leadership training. Students may also begin leadership training at the college level. Participation in the program does not require a commitment to enter the U.S. Army for non-scholarship students. The four courses in the program are transferable to any ROTC program in different branches of the military and participants in the program are able to transfer seamlessly for upper division studies.
To enroll, a student must be physically and morally qualified, a full-time degree-seeking student and a U.S. citizen. For additional information visit ROTC's website or contact Ramsey Ross at (850) 729-5379.

Non-Degree Seeking Students

Many students attend college to upgrade employment skills, for transfer credit, or for personal interest and enjoyment. Non-degree applicants only need to provide a completed Application for Admission and Florida Residency form. Applicants who do not wish to earn a degree or certificate from NWFSC and wish to take college, career and technical or vocational credit courses do not need to provide evidence of prior educational coursework. However, students seeking enrollment in courses with prerequisites or other admissions requirements, or students seeking financial assistance may be required to provide evidence of all prior educational course work. Students will not be permitted to enroll in any college credit English, humanities, mathematics, or Gordon Rule social science course - or any course having an English, mathematics or reading prerequisite - without meeting the State of Florida mandated minimum scores on an approved placement test or showing that they have met the prerequisite or are exempt from placement testing.

Transient Students from Other Institutions

Students who are currently enrolled at another post-secondary institution, wishing to take courses that will be transferred back to their current institution are considered Transient Students. Transient Students are required to submit their home institution's authorization of course selection before registration.

Adult General Education

This program leads to the completion of elementary and secondary studies, including basic reading, writing and mathematics. Adult General Education classes are designed for adults who need to develop skills in reading, writing and arithmetic. It includes other subjects related to gainful employment and college readiness such as obtaining the Florida High School Diploma through GED

testing, career preparation and postsecondary transition services. English classes are available for students that have a primary language other than English. Eligibility requirements are as follows:
Applicants must be 16 years old.
Applicants normally must NOT have received a standard high school diploma or passed the General Education Development (GED) Test.
Registration dates and times are the same as those for college credit students. The term fee is $30.00. Most student classroom materials are included in this fee.

International Students

International students should begin the admissions process at least four months prior to the beginning of any college term. International mail delays, transcript verifications, international monetary transfers, consular appointments, travel, housing and advisement/testing requirements must be anticipated many months in advance of enrollment. The desired date for application materials to be received by the College is April 1st for Fall, September 1st for Spring and January 1st for the Summer term.
International students seeking college credit on the F-1 or M-1 visa must satisfy all requirements for admission as a regular student and meet the following requirements:
Fill out the admission form located within the International Student Application Packet. Students can obtain an International Student Application Packet from the Admission area of the NWFSC website.
Transcripts: Official evaluations of secondary school records must be evaluated by an outside source at the student's expense. Students must use one of the agencies sanctioned by the National Association of Credential Evaluation Services, Inc. (NACES). For more Information please refer to the NACES website at www.naces.org. Requests for the acceptance of college/vocational level transfer work must also be evaluated by a NACES sanctioned evaluation service at the student's expense. Recommendations from the evaluation service will be considered in determining what courses may transfer, however, the final determination will be made by the College Registrar in consultation with the Academic Department Chairs/Deans. Academic records will not be returned nor will they be forwarded to another college or agency.
Financial Support: An official statement from the applicant's (or sponsor's) bank or other financial institution or government agency verifying the availability of sufficient funds for tuition, matriculation, books, living expenses, etc., must be submitted. (Approximately: $22,000 for the academic year.) With the exception of athletic scholarships, financial assistance for international students is not available from Northwest Florida State College. An international student must be able to finance all school expenses and transportation. Before obtaining a visa, the U.S. government will require a copy of the financial certification given to Northwest Florida State College. Employment is not permitted unless permission to work is given by INS. Remember, fees are subject to change without notice.
Language Proficiency: Test of English as a Foreign Language (TOEFL) results are required of applicants for whom English is not the primary language. The minimum required score is 173 for the computer-based TOEFL and 61 on the Internet-based TOEFL. Students, who have evidence of English proficiency in lieu of a passing TOEFL score, may petition the Admissions Committee for consideration. NWFSC does NOT give the TOEFL test.
Health Information: Health insurance with hospitalization coverage and a repatriation clause is required. This insurance should be obtained prior to the international student's first registration and must be maintained while attending NWFSC.
An official notice of acceptance or denial will be sent to applicants. Applicants should not make definite plans to arrive in the U.S. until he/she has been notified of acceptance to the college. Being in the U.S. will not affect the admission decision. Completing the application process does not guarantee acceptance to Northwest Florida State College. When all admissions documents, academic credentials, and test results are on file and meet minimum standards for the college, an acceptance letter will be sent along with the U.S. Immigration Form I-20. The Form I-20 is the document required to obtain the Student (F-1 or M-1) Visa. Final approval for visa is determined by the American Embassy or consulate representative and not the college. If the student cannot enroll for the semester written in the notice of acceptance and wishes to enroll in a different semester, International Student Admissions must be informed immediately.
NWFSC does NOT provide on campus housing; therefore, international students must arrange housing in the community. There is limited public transportation service in the area; students must provide their own transportation to and from the college. The U. S. Citizenship and Immigration Service (USCIS) regulations require that foreign students enroll in a full-time course of study during two of the yearly terms. USCIS regulations also restrict work opportunities for such students. International students should consult with the International Student Advisor and present his/her student visa and evidence of health insurance before registration.

Collegiate High School

NWFSC operates an innovative charter high school on the Niceville Campus. This school is a public school of the Okaloosa County School District governed by the NWFSC Board of Trustees. Through this unique high school/college program, students may earn both a high school diploma and a two-year college degree at the same time through full-time study at NWFSC. The Collegiate High School is free of charge and operates under guidelines established by Florida statute. Admission is open to any public, private or home school student who is of high school age and who has earned credit for placement in grades 10, 11, or 12.
Collegiate High School students enroll in honors high school classes and college courses and may earn both high school and college credit for these classes. Students follow an approved program of study designed by the student, his/her parents, and an educational advisor. The program of study meets the Florida statutory requirements for both a high school diploma and an associate degree. A limited pre-collegiate track assists students who are not completely prepared to directly enter a full program of college-level classes. For more information, call the Collegiate School Office at (850) 729-4949 or visit www.nwfcollegiatehigh.org.

Simultaneous Enrollment for High School Students

Simultaneous enrollment programs provide a means for educational acceleration for academically superior high school students. These include the following admission categories:
Dual Enrollment provides the opportunity for qualified high school students from Okaloosa and Walton counties to enroll in NWFSC courses while simultaneously enrolled in high school. Students receive both high school and college credit for these courses. Dual Enrollment students are exempt from tuition, matriculation, and laboratory fees. Public school students have books provided by the student's high school through the College's Barnes and Noble bookstore. Books must be returned by the end of the semester. Private and home school students must purchase their own college textbooks. Eligibility criteria and enrollment procedures comply with Florida law and regulations and are defined in the appropriate District Articulation Agreement. Prospective students and their parents should consult the Dual Enrollment Office at (850) 729-5205 or visit the website for the most current admission information and procedures, and a list of approved college courses.
Concurrent Enrollment provides the opportunity for qualified high school students from Okaloosa and Walton counties to enroll in NWFSC courses while simultaneously enrolled in high school. Unlike Dual Enrollment, college credits earned through concurrent enrollment do not apply to the student's high school requirements. Students concurrently enrolled pay standard college tuition, matriculation, laboratory and textbook fees.
Please note the terms and eligibility criteria of these high school enrollment programs are defined by state regulation, college policies and procedures and current articulation agreements. It may vary between Okaloosa and Walton counties, private and home school students. As such, they are subject to change.
Students must meet the admission requirements in order to enroll in either the Dual or Concurrent Enrollment programs. Student success in these programs is dependent upon both academic readiness and social maturity. Prospective students should consult the Dual Enrollment/Early College Office at (850) 729-5205 for admission information and procedures or visit the website.

Florida Residency for Tuition Purposes

Students are classified as Florida residents, Border State residents or as non-Florida residents for the purpose of fee assessment at the time of initial registration. Criteria for determining residency status are detailed in Florida Statutes and the administrative rules of the State Board of Education. A Florida resident for tuition purposes is a person who has (or a dependent person whose parent or legal guardian has) established and maintained legal residence in Florida for the 12 months immediately preceding the first day of classes of the term for which enrollment is requested. Residence in Florida must be for the purpose of establishing a permanent home and not merely incident to enrollment at an institution of higher education.
To qualify as a Florida resident for tuition purposes you must be a U.S. citizen, lawful permanent resident, or certain individuals granted indefinite stay by the U.S. Citizenship and Immigration Service. Living in Florida for the express purposes of attending school does NOT constitute legal residence. Students who depend on out-of-state parents for support are presumed to be legal residents of the same state as their parents unless one parent has established legal residence in Florida for more than 12 months. Two (2) documents supporting the establishment of legal residence must be dated, issued, or filed 12 months before the first day of classes of the term for which Florida residency is sought. Students cannot hold out-of-state driver's licenses, vehicle registrations, etc. and be eligible for Florida residency.
Students may review the residency guidelines at on the NWFSC website, at www.flvc.org, or any NWFSC location. Providing false residency information is a violation of Florida law and could result in disciplinary action being initiated. The college will correct the fees assessed those students who misrepresent their place of legal residence. An invoice will be issued for the increase in tuition.

Dependent

Students who are claimed on their parent's tax return as a dependent for the previous calendar year shall be considered to be dependent. In addition, a student, whether or not living with his/her parent, who is eligible to be claimed by his/her parent as a dependent under the federal income tax code shall be classified as dependent. In general, the IRS requires that a "qualifying child" or "dependent" meet six (6) tests:
The child must be your son, daughter, or stepchild.
The child must be: (a) under age 19 at end of the year; (b) under age 24 at end of the year AND a full-time student; or (c) any age if permanently disabled.
The child must have lived with you for more than half of the year subject to IRS exceptions.
The child must have NOT provided more than half of his/her own support for the year.
The child is NOT filing a joint return for the year (unless that joint return is filed only as a claim for refund).
If the child meets the rules to be a qualifying child of more than one person, you must be the person entitled to claim the child as a qualifying child.

Independent

A student who meets any one of the following criteria shall be classified as an independent student for the determination of residency for tuition purposes. Evidence that the student meets one of these criteria will be requested by the higher education institution.
The student is 24 years of age or older by the first day of classes of the term for which residency status is sought at a Florida institution.
The student is married.
The student has children who receive more than half of their support from the student.
The student has other dependents that live with and receive more than half of their support from the student.
The student is a veteran of the U.S. Armed Forces or is currently serving on active duty in the U.S. Armed Forces for purposes other than training.
Both of the student's parents are deceased or the student is or was (until age 18) a ward/dependent of the court or in foster care.
The student is determined an unaccompanied homeless by a school district homeless liaison, emergency shelter or transitional housing program.
Documentation is provided showing the student provides more than 50% of his/her support for the year.

Exceptions/Qualifications

Other persons not meeting the 12 month legal residence requirement may be classified as Florida residents for tuition purposes if they fall within one of the limited special categories authorized by the Florida Legislature [Florida Statute S.1009.21(11)]. These exceptions are listed below.

Documentation in support of these exceptions is required:

Active duty service members of the U.S. and active drilling members of the Florida National Guard stationed in Florida (spouse and dependent children included).
Active duty service members of the U.S. not stationed in Florida but whose legal state of residence is Florida (spouse and dependent children included).
Full-time instructional and administrative personnel employed by the State public schools system, college system, or university system (spouse and dependent children included).
A dependent child who has lived with an adult relative (who is not a parent or legal guardian) for at least five years.
Persons who were enrolled as Florida residents at a state institution of higher learning but who abandon Florida residency for less than one year.
Latin American/Caribbean Scholars.
U.S. citizens living on the Isthmus of Panama who have completed 12 consecutive months of college-level coursework at the FSU Panama Canal Branch (spouse and dependent children included).
Full-time employees of state-agencies or political subdivisions of the State when the student fees are paid by the agency or subdivision for the purpose of job-related law enforcement or corrections training.
Qualified beneficiaries under the Florida Pre-Paid Postsecondary Expense Program as provided in Florida statute.

A dependent child whose parents are divorced, separated, or otherwise living apart, will be considered a resident for tuition purposes if either parent is a legal resident of Florida, regardless of which parent claims the minor for tax purposes.
The law allows non-U.S. citizens such as lawful permanent residents, temporary permanent residents, asylees, parolees, and refugees who have applied for and been approved for such status and who otherwise meet the 12 month legal residence requirements, to be eligible to establish Florida residency for tuition purposes. For a list of non-immigrant categories (visa categories and INS classifications) eligible to establish Florida residency for tuition purposes contact the Registrar/Admissions Office or consult the Residency Guidelines under Apply on www.flvc.org.

Reclassification

Students classified as out-of-state residents for tuition purposes, may re-apply for in-state residency at such time as they have completed the requirements for establishing legal Florida residency. Students can reclassify by submitting an updated Residency Classification form and supporting documentation to the Admissions Office. A minimum of three (3) documents that support clear and convincing evidence of Florida legal resident for the previous twelve (12) consecutive months will be required.
Students who become eligible for in-state tuition in the middle of a term shall have their record adjusted to reflect the in-state tuition rate effective the next term of enrollment. Tuition will not be adjusted for the current term.

Appeals

In cases where the applicant expresses a desire to appeal the residency classification the matter will be referred to the Residency Appeal Committee in accordance with the college's official appeals process. The Residency Committee will render to the applicant the final residency determination and the reasons for the determination in writing.

Recent Florida High School Graduates

Effective July 1, 2014, for the Fall 2014 term and thereafter, House Bill 851 amended section (s.) 1009.26, Florida Statutes (F.S.), fee waivers, to authorize an out-of-state fee waiver for students who have attended a Florida high school for 3 consecutive years immediately prior to graduating from a Florida high school. These students must have applied to Northwest Florida State College within 24 months after their high school graduation. In order to be eligible, students will need submit an official HS transcript showing the Florida high school attendance. This waiver can be applied to recent Florida high school graduates regardless of their immigration status to include DACA and undocumented students. Students who do not qualify for in-state residency are encouraged to contact the Admissions Office to explore their options and apply for the waiver; 850-729-4901 or admissions@nwfsc.edu.

Out of State Tuition Waiver for Veterans

Effective July 1, 2014, for the Fall 2014 term and thereafter, House Bill 7015 created the Congressman C.W. Bill Young Veteran Tuition Waiver Program, authorizing an out-of-state fee waiver for honorably discharged veterans of the United States (U.S.) Armed Forces, U.S. Reserve Forces or the National Guard who physically reside in Florida. This waiver will be applicable for 110 percent of the required credit hours of the degree or certificate program for which the student is enrolled in. A new waiver application is required each academic year and is not applicable to spouses or dependents of a veteran. Veteran students are requested to seek in-state residency for tuition purposes by the end of their third semester at Northwest Florida State College.
Northwest Florida State College shall waive the out-of-state tuition for veteran students who meet the following conditions:
Received an honorable discharge as a member of the U.S. Armed Forces, U.S. Reserve Forces or the National Guard.
Physically reside in the state while enrolled at the institution (this will be verified each semester).
Proof of honorable discharge confirmed on veteran's DD214 (member copy 4).
Proof of physical residence in the state may include but is not limited to submission of an annual lease and/or a FL Driver's License reflecting the veteran's name.
In order to be eligible for the waiver, students will need to fill out the Non-Resident Tuition Waiver for Veterans. The waiver is available online and at all of our seven locations.

Alabama Residency

The Florida Legislature allows the option of providing Alabama residents a different tuition assessment for postsecondary classes. At NWFSC the Alabama Border State Fee, at a rate of an additional $1.00 per credit hour (or $1.00 per term for Adult Basic Education students) to the current in-state tuition rate, will be assessed for all eligible Alabama residents.
To be eligible for the Alabama Border State Fee the student must complete the Alabama Residency form and provide verification of an Alabama driver's license, Alabama vehicle registration, or Alabama voter's registration card.

Adult Education

ABE
GED
ESOL
Transition to College

NWFSC offers a comprehensive program of non-credit instruction designed to improve the employability and life skills of adult students. Courses are offered in Adult Basic Education (ABE), English for Speakers of Other Languages (ESOL), GED preparation. Each adult education course is offered for a small set fee each semester, which includes materials and supplies. The adult education program is designed for adults who have academic skills below the ninth grade level, those who do not have a high school diploma or those who have a primary language other than English. Special program emphasis is placed on preparing the student to become college ready. Students enrolled in adult education will receive free transition services to become college ready. These services include preparation for the college placement test, career exploration and assessment, developing a career pathway, financial aid and scholarship assistance, and career readiness skills. Visit the Adult Education/GED Preparation webpage or call the Adult Education Department at (850) 729-5387 for more information.

Adult Basic Education (ABE)

Adult Basic Education (ABE) at NWFSC consists of small group instruction with lab support leading to the mastery of the basic skills needed by adults to function in today's complex society. ABE classes are designed for students who want to improve their basic skills in reading, writing, and mathematics. The curriculum is divided into four literacy levels: beginning, basic, intermediate, and advanced.

General Education Development (GED) Preparation

GED classes prepare students to take the General Education Development examination, which leads to the State of Florida High School Diploma. Instruction is targeted at the secondary level with subject content in the areas of writing, social studies, science, reading, and mathematics.
The NWFSC Testing Center offers the Official GED Examination throughout the academic year. Students must register in advance for the exam and pay an examination fee. Testing is offered at the Niceville Campus.

English for Speakers of Other Languages (ESOL)

ESOL classes are eligible to students who have a primary language other than English. ESOL classes are designed to prepare students to communicate effectively in a multi-faceted society. This course is divided into seven literacy levels. Students are administered the Comprehensive Adult Student Assessment Systems (CASAS) test for placement into a literacy level. Course content is compatible with principles of language acquisition for adult learners of English and includes skills useful in both workplace life and academic applications.

Transition Services to Postsecondary Education

College credit transition services are available to adult education students preparing for the GED and GED for graduates. College ready services include the development of a transition plan that includes, career assessment, academic tutorial college ready instruction, peer mentoring by college credit students, as well as, scholarship, financial aid, and college credit admissions assistance.

Archived Catalogs

Archived Catalog for 2013-2014

The archived online catalog for 2013-2014 can be accessed by clicking the drop down at the top of the page or through the following link:
2013-2014 e-catalog updated through 2/12/14
2013 - 2014 archived catalog snagit

Archived Catalogs from 2012-2013 and earlier

2012-2009 Bookmarked Catalogs

2012-2013 Instructions for Use	2012-2013 full catalog .pdf
2011-2012 Instructions for Use	2011-2012 full catalog .pdf
2010-2011 Instructions for Use	2010-2011 full catalog .pdf
2009-2010 Instructions for Use	2009-2010 full catalog .pdf

2008-1999 Catalogs by Sections or Full Catalog

2008-2009 .pdf by Sections	2008-2009 full catalog .pdf
2007-2008 .pdf by Sections	2007-2008 full catalog .pdf
2006-2007 .pdf by Sections	2006-2007 full catalog. pdf - coming soon
2005-2006 .pdf by Sections	2005-2006 full catalog. pdf - coming soon
2004-2005 .pdf by Sections	2004-2005 full catalog. pdf - coming soon
2003-2004 .pdf by Sections	2003-2004 full catalog. pdf - coming soon
2002-2003 .pdf by Sections	2002-2003 full catalog. pdf - coming soon
2001-2002 .pdf by Sections	2001-2002 full catalog. pdf - coming soon
2000-2001 .pdf by Sections	2000-2001 full catalog. pdf - coming soon
1999-2000 .pdf by Sections	1999-2000 full catalog. pdf - coming soon
1998-1999 HTML Bookmarked Sections	1998-1999 full catalog. pdf - coming soon
1997-1998 HTML Bookmarked Sections	1997-1998 full catalog. pdf - coming soon

1996 and Earlier Catalogs (.pdfs)

1996-1997 Course Catalog
1995-1996 Course Catalog
1994-1995 Course Catalog
1993-1994 Course Catalog
1992-1993 Course Catalog
1991-1992 Course Catalog
1990-1991 Course Catalog
1989-1990 Course Catalog
1988-1989 Course Catalog
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1975-1976 Course Catalog
1974-1975 Course Catalog
1973-1975 Course Catalog
1972-1973 Course Catalog
1971-1972 Course Catalog
1970-1972 Course Catalog
1969-1970 Course Catalog
1967-1969 Course Catalog (This catalog was used for two years)
1966-1967 Course Catalog
1965-1966 Course Catalog
1964-1965 Course Catalog

Campus Services

Academic Success Center (ASC)
AmeriCorps
ATM Machines
Barnes & Noble College Store
Career Center
Child Development Center
Learning Resource Center (LRC)
Photocopies
Raider Café
Veteran's Succses Center

Learning Resource Center

Academic Success Center (ASC)

The ASC is located in the Activities Center on the Niceville Campus. The ASC provides free learning support services such as tutoring, ESOL, and writing assistance for all NWFSC students. Individual and group tutoring is available in a wide range of subjects on a walk-in-basis and by appointment. For more information, call the Academic Success Center at (850) 729-5389.
Math Labs are located in the Math Building L, Room L-131, on the Niceville Campus and in Building 7, Room 702 on the Fort Walton Beach Campus and Room 131 at the Crestview Center. The math labs are open to all students and provide free walk-in tutoring for all mathematics courses. For lab hours, students may call the Math Department at (850) 729-5377 or visit our website at http://faculty.nwfsc.edu/web/math/mathlab.

AmeriCorps

AmeriCorps is a component of the National Service Network. Its goal is to engage Americans of all ages and backgrounds in service to help meet communities' critical education, public safety, environmental, and other human needs and homeland security. AmeriCorps is often referred to as the "Domestic Peace Corps".
Full-time members serve a minimum of 1700 hours per service year. They receive a taxable living allowance while serving and a $5,500 education award voucher at the end of the service commitment. Other benefits for full-time members include healthcare insurance and student loan deferment and childcare (if qualified).
Half-time members serve 900 hours and receive a reduced living allowance and a $2,775 education award. Half-time members are eligible for student loan deferment but are not eligible for healthcare or childcare. For more information, please call (850) 729-6037 for information on the program.

ATM Machines

ATM machines are located in the Student Services Center on the Niceville Campus and on the Fort Walton Beach Campus.

Barnes & Noble College Stores

NWFSC has two College Stores which are operated by Barnes & Noble College. The College Store on the Niceville Campus is located in the Activities Center. The Fort Walton Beach Campus College Store is located in the Student Services Building. Both stores are full-service stores offering textbooks, supplies, college clothing, gift items, hardware, and software. The stores maintain extended hours during back-to-school and book buy back periods. Contact the College Store or visit the Barnes & Noble NWFSC College Store website for store hours.

Career Center

The Career Center, located in the Student Services Center on the Niceville Campus, provides career planning assistance for students and the community. The Career Center offers interest and skills assessments, career information, help with resume preparation and a variety of workshops. The program assists students with making an education and training choice that will enable them to enter or reenter the workforce with marketable skills.

Student Career Assessments

The following are offered through the Career Center:
CHOICES is a Career Planning tool hosted by the state of Florida and available on any computer. The NWFSC Career Center has computers available in their Career Counseling area for students to access this powerful program to set up an account and explore career, education and scholarship opportunities.
Strong II - The Strong Interest Inventory provides information on overall patterns of interests, preferences and personal styles that can be explored for the immediate and long-range educational and career planning.
Myers-Briggs Type Indicator - This is a personality instrument based on psychological types and temperaments. It provides information about your personality style and the way you interact with other people.

Learning Resource Center

During the Fall and Spring Terms, the library is open Monday through Thursday from 7:30 am to 9:00 pm, Fridays from 7:30 am to 5:00 pm, and Saturdays from 9:00 am to 1:00 pm. Hours vary during the Summer Terms. Please visit the LRC website for hours and additional information or call (850) 729-5318.

Mary Lou O'Connor Child Development and Education Center

The College's Mary Lou O'Connor Child Development and Education Center provides comprehensive, quality care for children ages 2.5 to 5. The center is nationally accredited and is open to dependents of NWFSC students, staff, faculty and members of the community on a space available basis. The center is located in Building M on the Niceville Campus and is open Monday through Friday from 7:00 am to 5:30 pm. The college participates in the Florida Voluntary Pre-Kindergarten (VPK) program. For more information call (850) 729-5386.

Photocopies

The RaiderCard may be used to make copies at the locations listed below.
Niceville Campus - The Learning Resources Center
Fort Walton Beach Campus – Library

Raider Café

The Raider Café, located in the Student Services Center, Building SSC, on the Niceville Campus, is open Monday through Friday from 7:15 am to 2:00 pm during the Fall and Spring Terms and Monday through Thursday from 7:30 am to 2:00 pm during the

Summer Term. Vending machines are available at the Fort Walton Beach Campus in the Student Services Building, Building 6 and Building 3. Vending machines are also available in the student lounge areas at the Chautauqua and Sikes Centers.

Veteran's Success Center

The Veterans Success Center, located in the Student Services Center on the Niceville campus, can assist veterans and families with educational goals and transition into the workplace.

College Campuses and Centers

South Walton Center Fort Walton Beach Campus Robert L. F. Sikes Education Center

Campus Maps

See the Campus Maps page on our website for more information.

College Locations

Niceville Campus	(850) 678-5111
100 College Blvd. East, Niceville, FL 32578	Fort Walton Beach Campus
(850) 863-6500	1170 Martin Luther King Jr. Blvd., Fort Walton Beach, FL 32547
Chautauqua Center, DeFuniak Springs	(850) 200-4100 or (850) 892-8100
908 U.S. Highway 90 West, DeFuniak Springs, FL 32433	Robert L. F. Sikes Education Center, Crestview
(850) 200-4141 or (850) 689-7911	805 E. James Lee Blvd., (U.S. Hwy. 90), Crestview, FL 32539
Eglin AFB Education Center	(850) 200-4180 or (850) 678-1717
Education Services Building 251, Room 127, AD/DPE Eglin Air Force Base, FL 32542	Hurlburt Field Education Center
(850) 200-4190 or (850) 884-6296	Education Services Building 90220, 221 Lukasik Avenue, Hurlburt Field, FL 32544
South Walton Center	(850) 200-4160 or (850) 267-2888

Contact NWFSC

Academic Advising
Academic Departmental Offices
Admissions, Enrollment, Records
Adult Education and Literacy
Business Office
South Walton Center Fort Walton Beach Campus Robert L. F. Sikes Education Center

Campus Maps

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South Walton Center	(850) 200-4160 or (850) 267-2888

Information
NWFSC by Web
NWFSC by Email

NWFSC by Web

NWFSC	www.nwfsc.edu
Athletics	http://nwfraiders.com
Distance Learning	http://ecampus.nwfsc.edu/

Financial Aid	http://www.nwfsc.edu/Students/PayingforCollege/FinancialAid/
Orientation	www.nwfsc.edu/orientation
Veteran's Affairs	http://www.nwfsc.edu/Students/PayingforCollege/FinancialAid/veterans.cfm

NWFSC by Email

IT Helpdesk

helpdesk@nwfsc.edu

Admissions

admissions@nwfsc.edu

Academic Advising

advising@nwfsc.edu

Enrollment

registrar@nwfsc.edu

Fee Payment

businessoffice@nwfsc.edu

Financial Aid

financialaid@nwfsc.edu

Academic Advising

Chautauqua Center, DeFuniak Springs

(850) 892-8100

Eglin AFB Center

(850) 678-1717

Fort Walton Beach Campus Bldg. 4, Room 403A

(850) 863-6508

Hurlburt Field Center

(850) 200-4190

Niceville Campus, Student Services Center

(850) 729-5234

Robert L. F. Sikes Education Center, Crestview

(850) 689-7911

South Walton Center

(850) 200-4160

RaiderNet degree audits

RaiderNet

AA transfer evaluation

Florida Virtual Campus

Admissions, Enrollment, Records and Information

Chautauqua Center, DeFuniak Springs

(850) 892-8100

Eglin AFB Center

(850) 678-1717

Fort Walton Beach Campus, Bldg. 1

(850) 863-6504

Hurlburt Field Center

(850) 200-4190

Niceville Campus, Student Services Center

(850) 729-4901

Niceville Campus Fax

(850) 729-5323

Robert L. F. Sikes Education Center, Crestview

(850) 689-7911

South Walton Center

(850) 200-4160

RaiderNet, enrollment and transcripts

RaiderNet

Online admissions

Online Admission Application

Adult Education and Literacy

ABE, GED and English for Speakers of Other Languages (ESOL):

Niceville Campus, Student Services Center

(850) 729-5387

Chautauqua Center, DeFuniak Springs

(850) 892-8100

Fort Walton Beach Campus, Bldg. 3, Room 305

(850) 863-6534

Business Office - Fee Payment

Chautauqua Center, DeFuniak Springs

(850) 892-8100

Eglin AFB Center

(850) 678-1717

Fort Walton Beach Campus, Bldg. 1

(850) 863-6504

Hurlburt Field Center

(850) 200-4190

Niceville Campus, Student Services Center

(850) 729-5385

Robert L. F. Sikes Education Center, Crestview

(850) 689-7911

South Walton Center

(850) 200-4160

RaiderNet fee payment

RaiderNet

Academic Departmental Offices

Advanced Technology and Design	(850) 729-5218
Health Sciences	Dental Assisting
(850) 729-6444	Emergency Medical Services (EMS)
(850) 729-4924	Emergency Medical Technician (EMT)
(850) 729-4924	Health Services Management
(850) 729-6444	Medical Coding
(850) 729-6444	Nursing: Associate
(850) 729-6400	Nursing: RN to BSN
(850) 729-6444	Paramedic

(850) 729-4924	Radiography
(850) 729-6444	Athletics, Health, and Fitness
(850) 729-5379	Business
(850) 729-5369	Child Development
(850) 729-6081	Computer Science
(850) 729-5369	Education
(850) 729-6440	English/Communications
(850) 729-5390	Humanities, Fine & Performing Arts
(850) 729-5382	Mathematics
(850) 729-5377	Military Science (ROTC)
(850) 729-6022	Public Safety Law Enforcement and Corrections Academies Emergency Services (EMS)
(850) 729-5378 (850) 729-4924	Sciences
(850) 729-5376	Social Sciences

Continuing Education

Costa Leadership Institute Recreation and Leisure PRIME Time

Non-credit continuing education courses provide an opportunity to increase occupational efficiency, enhance leisure time, or pursue personal development goals. Typical subjects range from computer skills, insurance, and supervision to painting, gardening, cooking, and exercise. Instruction is offered through a variety of programs, including PRIME Time (Positive Retirement through Imaginative Education) and the Institute for Professional Development. Continuing Education Units (CEU's) may be earned upon completion of certain continuing education courses. CEU's allow individuals to accumulate, update, and transfer their records of professional development. Call the Continuing Education Department at (850) 729-6085 for more information.
Courses offered through these options range from personal enrichment, recreation, leisure, and crafts to professional development and customized business/industry training. Courses offered through these options are non-credit and may not be used toward any NWFSC degree or certificate program. Students enrolled in non-credit courses receive all of the benefits of the regular students, including use of the library, access to special events, and free parking.

Costa Leadership Institute - Learning Experiences Allow Us to Develop and Achieve Our Full Potential

The Costa Leadership Institute at NWFSC provides a variety of unique professional development opportunities and customized business skills training options for individuals, businesses, government, military and not-for-profit organizations. Programs offered by the institute include open enrollment trainings in the spring and fall, customized training for businesses, Leadership Okaloosa community leadership program, Collegiate High School leadership program, STEM programs, community outreach and more. The Costa Leadership Institute is located on the third floor of the college's 75,000 square foot Student Services Center on the Niceville campus and offers facilities to host association, community, governmental meetings and special events.
The programs of the Costa Leadership Institute are specially designed to support the economic and workforce development of our region and our vital role in the state and global economy. The Costa Leadership Institute is committed to providing the highest standard of achievement for our participants and developing strong and ethical leaders to guide our community. Through

experienced instructors you will:
Learn new skills
Develop your expertise
Achieve your professional goals and full potential
Network with other emerging and established community leaders
Earn professional certifications, continuing education credits and much more!
The Allyn C. Donaldson Entrepreneurial Institute at the NWFSC South Walton Center is also under the umbrella of the Costa Leadership Institute with a special focus on creating an entrepreneurial spirit that promotes innovation, creativity and change in leaders from the public and private sectors.
The college has always been a community steward and the Costa Leadership Institute incorporates this part of the college mission by supporting community-based strategic partnerships such as emergency management, public safety, sustainability, and military transition and provides facilities to host meetings and special events for area organizations.
For more information on the NWFSC Costa Leadership Institute, please visit www.nwfsc.edu/LI or call (850) 729-6880.

Recreation and Leisure (Personal Enrichment)

A variety of non-credit personal enrichment courses are available throughout the year. Topics range from computer skills, finance, consumer education and a variety of courses to meet the needs of the community. Fees vary with the length and type of course offered; most classes are held on the Niceville Campus.

PRIME Time

The PRIME Time program offers a wide selection of non-credit courses for adults of all ages who are interested in leisure learning. Courses range from art, politics, fitness, food and wine, lunch and learns, and computers. The main objective of these classes is for personal enrichment, therefore students learn at their own pace, without the stress of grades and tests. The course offerings are planned by a special PRIME Time Curriculum Committee, which considers topics and suggestions of past enrollees and of community members. Fees vary with the length and type of course. Classes are held at the Niceville Campus, South Walton Campus and at select locations in the local area. For more information call (850) 729-6084.

Developmental Education

Alternative Developmental Instruction
College and Personal Success Classes
Developmental Exit Exam
Placement Testing
Placement Chart
Repeats and Attempts

Developmental Education Overview

The Developmental Education Department provides classes to develop students' skills in English, reading and math as well as study skills and test taking strategies inSLS 1101 - College Success , a college credit class. The department offers courses designed to improve the academic skills of students to prepare them for success in their college level courses, career fields, and/or the workplace.
Free instructional support also is provided with walk-in Math tutoring in the Math Lab and individual tutoring appointments for a variety of subjects in the Academic Success Center. Online tutoring is also available through RaiderNet.
Successful completion of the developmental requirement is defined as:
A grade of "C" or higher in each required developmental course and
Attainment of a passing score on each required developmental exit examination.
Students enrolled in developmental courses may, at the same time, take college credit courses for which they are qualified. In this manner, a student may begin earning credits that apply toward his/her program of study while completing developmental requirements.

Placement Testing

A student's placement test scores ensure accurate placement in Developmental courses. However, some students are exempt from placement testing, although they may opt to take the placement test in order to gauge their readiness for college-level work.

Exempt Students

Exempt students are defined by Florida Administrative Code 6A-10.0315 and Florida Statute 1008.30 as Active Duty Military students or students who have graduated from a Florida high shool since 2007 and are not required to take a placement test or take Developmental Education courses. Exempt students who choose to take a placement test to measure their college readiness are not bound by the scores to enter developmental education; however, they may elect to enroll in developmental education. See the Placement Chart below for course placement scores. Any advisor or the appropriate department chair can provide the permission required for some courses.

Non-Exempt Students

Non-exempt students whose entry level placement scores are below the levels specified in Florida Administrative Code are required to enroll in the appropriate developmental courses. They must take the placement test and will be placed based on their scores, as outlined in the Placement Chart.

Placement Chart

Math Placement Levels

TEST	Developmental Mathematics I	Developmental Mathematics II	Developmental Mathematics Module - by Special Permission	Intermediate Algebra Laboratory - by Special Permission	Intermediate Algebra	College Algebra or higher
PERT	50-95	96-113	105-109	110-113	114-122	123-150
ACT	≤ 18 PERT Required	≤ 18 PERT Required	≤ 18 PERT Required	≤ 18 PERT Required	19-20	21
SAT	≤ 439 PERT Required	≤ 439 PERT Required	≤ 439 PERT Required	≤ 439 PERT Required	440-499	500

Reading Placement Levels

TEST

Developmental Reading I

Developmental Reading II

Developmental Reading Module -by Special Permission

English Composition I

PERT

50-83

84-105

96-105

106-150 & Writing 103-150

ACT

≤ 18 PERT Required

≤ 18 PERT Required

≤ 18 PERT Required

Reading ≥ 19 & English ≥ 17

SAT

≤ 439 PERT Required

≤ 439 PERT Required

≤ 439 PERT Required

440

English Placement Levels

TEST

Developmental Writing I

Developmental Writing II

English Composition I Lab - by Special Permission

Writing and Grammar

English Composition I

PERT

50-89

90-102

100-102

103-116 Strongly Recommended

103-150 & Reading 106-150

ACT

≤ 16 PERT Required

≤ 16 PERT Required

≤ 16 PERT Required

17-20

17

SAT

≤ 439 PERT Required

≤ 439 PERT Required

≤ 439 PERT Required

440-499

440

Developmental Exit Examination

The Developmental Educuation Department requires that a student successfully complete a departmental exit examination at the close of each developmental course sequence in which he/she is required to enroll. Accordingly, a departmental exit examination will be administered in each developmental subject area in coordination with the final course in the developmental English, mathematics, and reading sequences. In order to proceed into college credit course work in the subject area, a student must successfully complete both the developmental course and the appropriate exit examination.

Alternative Developmental Instruction

Florida law requires that all students whose placement test scores indicate the need for remediation be given the opportunity to satisfy the remediation requirement through developmental instruction or through alternate instructional options. Examples of alternate options include independent study, non-credit courses, and instruction through other colleges and private providers. Students who elect to pursue one of the alternate options must meet with an Academic Advisor prior to registration in order to discuss the impact of the choice on his/her degree progress.

Repeat Enrollments and Attempts in Developmental Courses

Per Florida Statute, a student is eligible for no more than three attempts to successfully complete a given developmental course. All official enrollments after Summer of 1997 are considered attempts, regardless of the grade received. In documented cases of hardship or extenuating circumstances, an exception to the requirement may be granted. Exceptions must be appealed through the Registrar prior to registration. However, if a withdrawal is processed prior to the close of the Drop/Add period, or if audit status is granted prior to the close of the Drop/Add period, the enrollment will not be counted as an attempt. Students may not audit a developmental course unless advance approval is granted through the Office of Academic Affairs. If a student receives a grade of D, F, W, X, or U in a developmental course, he/she may repeat the course to improve the grade and meet developmental requirements. On the third attempt, however, the student will be awarded the letter grade earned (A, B, C, D, F, S, U, or P) and will not be allowed to withdraw or to re-enroll. The prohibition for re-enrollment extends to any public postsecondary institution in Florida.
Once a student has exhausted his/her course attempts in a given developmental area, the only ways to satisfy the developmental requirement are: a) retake the placement examination and demonstrate a score above the established minimum for that subject area, or b) provide documentation of successful completion of an equivalent or higher-level course at a private postsecondary institution. Students not eligible to re-enroll in a given developmental course may, however, continue enrollment at the college in other developmental courses, or in other courses for which they are eligible. In the latter case, an appeal through Enrollment Services may be necessary to continue enrollment.

3rd and 4th Attempts

Florida Statutes also mandate that after the second attempt in a given developmental course, a student will be required to pay the full cost of instruction (approximately four times the usual matriculation fees) to repeat the course. In documented cases of financial hardship or extenuating circumstances, an exception to the full cost requirement may be granted. Exceptions must be appealed through the Registrar prior to registration.

Alternatives for Students No Longer Eligible for College Developmental Enrollment

Once a student has exhausted his/her course attempts in a given developmental area, the only ways to satisfy the developmental requirement are: a) retake the placement examination and demonstrate a score above the established minimum for that subject area, or b) provide documentation of successful completion of an equivalent or higher-level course at a postsecondary institution. NWFSC is committed to student success and has developed several strategies for students in this circumstance. The student should work closely with an Academic Advisor to identify alternatives for which he/she is eligible and to develop a plan for continued study. These strategies are also appropriate for an individual who is subject to the full cost requirement and is unable to afford the increased cost of enrollment.
The student may continue enrollment in other appropriate developmental courses, or continue enrollment in other appropriate developmental and college credit courses and pursue one of or a combination of the following strategies. After an appropriate skill-building effort, the student may then retake the placement exam.
Enroll in an appropriate alternate developmental course in the subject area
Enroll in an adult basic education class(es) to build skills in the given area
Pursue individualized study in the Academic Success Center and/or Math Lab to build skills in the given area
Work with a college tutor to build skills in the given area
Enroll in a college non-credit basic skill refresher course in the given subject/skill area
Attend a Skill Refresher Workshop(s) in the given subject/skill area
The student may consider a revised program of study which does not carry a developmental requirement. The college offers several college credit and vocational certificates for which placement testing and developmental instruction are not applicable. Students pursuing an A.S. degree may wish to change to a companion college credit certificate which offers the technical skills needed for employment. After completion of the certificate courses, the student may acquire sufficient skills to perform better on the placement examination and eventually progress to an associate degree program of study. See the "Certificates " section of this catalog.
The student may temporarily "stop-out" of credit courses, concentrate on skill development, through his/her own resources, then retake the placement examination.
The student may enroll in an equivalent or higher level course in the subject area at another postsecondary institution. Upon successful completion of that course work, the student may transfer the course back to NWFSC and/or re-take the placement exam. Students wishing to pursue this option should work closely with an advisor to be sure the alternate course(s) selected will satisfy the developmental requirement. Ideally, the student should submit a transient study form and secure advance approval. Depending on the nature and level of the transfer course, the student may still need to demonstrate minimum skills through the placement exam.

College and Personal Success Classes

Courses focusing on college and personal success strategies are beneficial to a student's academic career and can be used as an elective in some degree programs. NWFSC offers the following college credit courses:
College Success: SLS 1101 is a required course for all students enrolled in the first level of developmental instruction of reading, mathematics or English, or for any student that is required to take any two or more developmental courses regardless of the level. It is a co-requisite requirement that must be taken with the student's first developmental course.
Service Learning Seminar: SLS 1201 is required for Presidential Scholarship students.

Directed Independent Study

Directed independent study provides opportunities for students to earn college credits in standard courses by working with a college instructor on an independent basis. Students enrolling for courses under Directed Independent Study (DIS) are expected to accomplish the goals and objectives as specified in the course syllabus and are expected to attend such class meetings, group sessions, and working conferences as specified by the instructor. Courses are scheduled on a flexible basis as approved by the instructor, the department chair, and by the Vice President of Academic Affairs with the understanding that final exams will be taken

and grades awarded during the term in which they begin. All regular fees apply to DIS courses.
DIS course enrollments are authorized under the following conditions:
A documented need exists for the student(s) to enroll for the course immediately rather than taking an alternate course or waiting until the next term in which the desired course would be offered.
The student is able to identify an instructor who is willing to teach the course as DIS.
The student understands the extensive burden which he or she is undertaking.
Enrollment is approved by the Department Chair and Vice President of Academic Affairs.
When it is not feasible for the course/section to be scheduled concurrently and taught at the same time and locations as another course/section.

Disclaimers

Notice to Students

The provisions of this publication are not to be construed as a contract between the student and Northwest Florida State College. The college reserves the right to change any provision or requirement when such action becomes necessary. Official announcements are available through the Office of Academic Affairs, posted in the Student Services Center, and when possible, listed in the Schedule of Classes. Students are responsible for meeting, in full, the appropriate requirements for graduation or program completion and are advised to work closely with counselors/advisors in planning of a program of study. Students are expected to familiarize themselves with all rules and regulations of the college.
Northwest Florida State College is dedicated to the concepts of equity and equal opportunity. It is the specific intention of the college not to discriminate on the basis of age, color, ethnicity, disability, marital status, national origin, race, religion, genetic information, or gender, in its employment practices or in the admission and treatment of students in its programs or activities. The Northwest Florida State College Equity Coordinator may be contacted at 850-729-5365 or in Human Resources in the Administration Building on the Niceville Campus (100 College Blvd., Niceville, FL). The Equity Coordinator is designated to coordinate compliance with the Florida Educational Equity Act and information about the availability of the colleges' grievance procedures. The Equity Coordinator is also coordinator of Title IX of the Education Amendments of 1972.

Accreditation

Northwest Florida State College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate and associate degrees, certificates and diplomas. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Northwest Florida State College.

Accredited By

The Southern Association of Colleges and Schools Commission on Colleges

Approved By

Florida State Department of Education

Member

Southern Association of Colleges and Schools Florida College System Activities Association Association of Florida Colleges

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Distance Learning

eCampus
Final Examinations
On-line Course Orientation
On-Line Instruction
On-line Support Services

eCampus

Technology and the Internet are integral parts of the education process at NWFSC. In keeping with current educational practice, students will be expected to use computer technology and internet communication throughout their college experience. All classes offered at NWFSC may require use of the Internet; such use may vary depending on the class delivery mode (traditional, hybrid, or online).
NWFSC's eCampus website (http://eCampus.nwfsc.edu) supports student learning through various methods and serves as the portal for online and hybrid classes. The site provides access to online classes for Distance Learning students and for students in traditional and hybrid classes using the Desire2Learn (D2L) online learning environment.
In addition, all students may access other technology tools from this site, such as videos of instructors' lectures, web conferencing software, and plagiarism prevention software. Technical support for students using these resources is also available on the eCampus website. At NWFSC, both on-line and hybrid classes serve students who elect to learn outside the traditional classroom.

On-line Classes

Online instruction, using the D2L platform, reaches students needing flexibility and convenience. Online courses are facilitated virtually, yet they may require a proctored component. In compliance with SACSCOC (Southern Association of Colleges and Schools Commission on Colleges), the proctored component is intended to verify identity of online students thereby ensuring the integrity of online programs within NWFSC.

Hybrid Classes

Hybrid classes are traditional college classes combined with online activities to reduce class seat time. Hybrid classes provide the advantages of limited face-to-face instruction combined with the convenience of online learning. Thus, hybrid classes meet less often than a traditional class but provide the same course credit as a traditional class.

Online Instruction

NWFSC offers students the convenience and flexibility of earning course credits through various delivery modes so that students may take control of their own education by working and learning at times and places convenient to them. Online and Hybrid classes carry the same course numbers and credits as their traditional counterparts and appear on the student's transcript just as any other course does; there is no designator on the transcript identifying a course as online or hybrid. Credits earned are transferable and are applicable to graduation requirements in the same manner as traditional classes. All NWFSC courses, including all online and hybrid courses, are taught by faculty holding credentials in the relevant subject matter. The majority of eCampus instructors are full-time faculty who also teach traditional classes and whom online or hybrid students may contact or visit during office hours.
Students can search for online and hybrid classes by clicking the Class Schedule link at http://eCampus.nwfsc.edu.

Online Course Orientations

To ensure the success of each student, every online instructor will provide an online orientation experience. Course orientations contain crucial information, such as course pace, how to submit assignments, grading requirements, testing arrangements, and strategies for improving student success. A face-to-face orientation may be required for specialized programs, such as nursing, please see the class schedule for details.

Final Examinations

Final examinations for both traditional and Distance Learning classes are held at the end of each term and must be taken at the scheduled time unless other arrangements are approved in advance by the appropriate division director or department head. Final exam schedules are printed in the Schedule of Classes and on the NWFSC website for each term.

Online Support Services

NWFSC is committed to offering students the same quality of education through online and hybrid courses as it offers in the classroom. Students have full access to college services at all locations. They may use on-campus resources, such as the Academic Success Center, the Career Center, Academic Advising and computer labs.
On-line and hybrid courses are subject to the same rules as traditional, in-class courses for refunds, prerequisites, placement, withdrawals, repeat rules, grading, and other academic policies. Depending on student eligibility, financial assistance is generally available for these courses in the same manner as it is for traditional courses.
For more information, contact the eCampus/Learning Technologies Office at (850) 729-6464 or visit the eCampus website at http://eCampus.nwfsc.edu.

Enrollment

Academic Load
Audit Status
Classification of Students
Full-time and Part-time Status
Registration
Schedule Changes
Withdrawing from Courses

Registration

Registration is the process of enrolling in courses and obtaining your schedule for the next term. Registration is required before a student can attend classes. Student can register online through RaiderNet. Specific information about registration for a particular term is given in the Schedule of Classes which is available online at www.nwfsc.edu.
Students may register by computer via the college website or in person. Any student who has previously attended the college, and who has not been in attendance within one academic year, must reapply online at www.nwfsc.edu/admissions to update personal data, verify education goals, and residency.

Full-Time and Part-Time Enrollment Status

Student Type	Full Time	Part time
College Credit, Vocational, Developmental	12 or more credit hours	less than 6 credit hours

Classification of Students

Students are classified according to the number of semester hours they have earned.

LOWER LEVEL

Freshman	A student who has fewer than 24 hours

Sophomore	A student who has 24 hours to 59 hours.

UPPER LEVEL

Junior	A student who has 60 to 89 hours
Senior	A student who has 90 or more

Academic Load

The maximum load that may be carried by a student each term is eighteen (18) credit hours. Students seeking to enroll in more than eighteen (18) developmental, vocational, and/or college credits in a single term must have the prior approval of an advisor.

Audit Status

A student registering in a college- credit course on a "not-for-credit" basis will be enrolled in an audit status. Upon completion of the course, an "X" grade will be awarded with no impact on the student's GPA. A student may elect to change to audit after the end of the advertised drop/add period. An "XC" will count as an attempt toward full cost of instruction/repeat rules. Students auditing a class are not required to complete examinations but are expected to attend classes and participate in other activities and requirements on the same basis as students seeking credit. Some occupational courses may not be available on an audit basis. A student wishing to audit an occupational course must obtain permission in advance from the appropriate department head or division director. Audit enrollment in studio art classes is permitted on a space-available basis only.

Schedule Changes during the Schedule Adjustment Period

Changes in courses or sections may be made during the schedule adjustment period specified in the college calendar. Any such change can be accomplished either in person, by completing and processing the required forms at any NWFSC campus or center, or by logging on to RaiderNet.

Withdrawing From Courses

Enrollment	Registration Period	Time Frame	Transcripts Grades	Refund
Schedule Adjustment Period	Add or Drop a Class	First Week of Full Term	No Record Recorded	Full Refund
Withdraw	Drop one or more classes	Up to 60% period of the semester	W Grade	No Refund
Complete Withdrawal from College	No longer a currently enrolled student - Must consult with an Academic Advisor	Up to 60% period of the semester	W Grade	No Refund

Administrative Withdrawal	Mitigating Circumstances only with Dean Approval	Anytime	W Grade	No Refund

Student Initiated Drop prior to or during the Schedule Adjustment Period

If a student withdraws from a course within the established schedule adjustment period, the transaction is considered dropping a course and no record of the enrollment will appear on the student's transcript, nor will the enrollment count as an attempt for purposes of full cost or repeat rules.
Developmental courses are not permitted to be dropped without first meeting with an Academic Advisor. Students must remain enrolled in at least one developmental course each term until developmental requirements are satisfied.

Student Initiated Withdrawal after the Schedule Adjustment Period

Students are permitted a maximum of two withdrawals per course in college credit, vocational or developmental courses. Upon the third and any subsequent attempt in such a course, the student will not be permitted to withdraw and will receive a grade for the course.
A student-initiated withdrawal can be processed up to the withdrawal deadline posted in the College Calendar. Withdraws can be completed using RaiderNet or by submitting a signed withdrawal form at the registration desk at any campus or center. If the student has not exceeded the approved number of withdrawals, the student will receive a grade of "W" on his/her transcript.

Complete Withdrawal from College

A currently enrolled student may completely withdraw from all of their classes up to the withdrawal deadline posted in the College Calendar and will no longer be considered a current student. The transcript will reflect a grade of a "W" for all classes. The student must first consult with an Academic Advisor to complete the process. Financial Aid recipients and student athletes must check with the appropriate representative to determine if there will be financial ramifications for withdrawing.

Administrative Withdrawal

Students may be administratively withdrawn from college for reasons such as violation of college policies, procedures, student code of conduct, or for other mitigating circumstances. The Vice President of Academic Affairs or the Dean of Students can administratively withdraw a student. Instructors may withdraw students who do not attend during the first week of class.

Financial Aid/Veteran's Affairs

College Costs
Courses that Financial Aid Pays For
Enrollment Status
Financial Aid Administered by NWFSC
Financial Aid Standards of Academic Progress
FA/VA Students' Rights and Responsibilities
Random Selection for Verification
Return of Title IV Financial Aid Funds
Steps in Applying for Financial Aid
Student Eligibility
Timelines for Applying for Financial Aid
Unofficial Withdrawals
Veterans' Educational Benefits
Veterans' Fee Deferment Policy

NWFSC's mission is to serve everyone who can benefit from a college education. No one should hesitate to apply for admission because of financial need. The college offers a variety of financial assistance for students such as Grants, Scholarships, Loans and Work Programs. Information on these types of financial aid along with the Free Application for Federal Student Aid (FAFSA) is available on the NWFSC website at www.nwfsc.edu/financialaid or from the Office of Financial Aid on the Niceville Campus. Financial assistance administered by NWFSC does not discriminate on the basis of color, religion, age, sex, national origin, disability, or marital status. Specific criteria and academic standing information may be required for particular assistance or scholarships.

Financial Aid Students' Rights and Responsibilities

Rights:
As a financial aid applicant or recipient, students have the following rights:
To be advised of what financial aid programs are available and how to apply for them.
To be advised of the requirements in cases of withdrawal, such as refunds or repayments of financial aid.
To be advised of the requirements for maintaining financial aid standards of academic progress and good academic standing.
To have all application information treated with the highest confidentiality.
Responsibilities:
As a financial aid applicant or recipient, students have the following responsibilities:
To apply for financial aid early if a student wishes to be considered for financial assistance.
To submit all required forms accurately, completely, and in a timely manner.
To provide documentation, verification of income, corrections, and/or any information to complete their financial aid file.
To accept responsibility for all forms and agreements the student signs.
To use financial aid for the student's actual educational expenses.
To know whether or not the courses they enroll in are compliant for financial aid.

College Costs

NWFSC's fees are designed to make college affordable for most students. Other indirect education costs may include room and board, personal expenses, medical insurance, transportation and supplies. Dependent students usually have parental support, reducing indirect education costs.

Steps in Applying for Financial Aid

Complete the NWFSC Application for Admission and Residency.
Request appropriate supporting documents for admission (i.e. high school transcript, GED, college transcripts).
Complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov.
24 hours after completing the FAFSA, the student will receive a Student Aid Report (SAR). The SAR must be reviewed by the student for accuracy.
Check RaiderNet 5 days after submitting the FAFSA for red flags (Federal Verification Form, Institutional Application for Aid, signed federal income tax transcript, W-2 forms, SAP, etc.).
If a student's financial aid file is "complete", then an award letter will be emailed to the student by the college's Financial Aid Office. Awards listed on a student's award letter are tentative and are not final. Awards can be either adjusted or cancelled at any time due to enrollment, academic standing or availability of funds.

Timelines for Applying for Financial Aid

Applications for federal financial aid should be made well in advance of registration by submitting the Free Application for Federal Student Aid (FAFSA).

Fall Term	Spring Term	Summer Term
May 15, 2014	October 1, 2014	February 1, 2015

Students not meeting the priority timeline may still qualify for financial aid but may experience lengthy delays in receiving financial aid.
The absolute last day for determining enrollment status (i.e. part-time, three-quarter time, or full-time) is the last day to register for Session 1 courses during each term. (These dates are listed in the Schedule of Classes each term and the calendar section of this catalog.) Students must be enrolled in all classes that will be included in their enrollment status, including late starting classes, by the last day to register for Session I.
All FAFSA applications for the Florida Student Assistance Grant (FSAG) dated May 15, 2014 or earlier will be given first priority in determining FSAG eligibility. All FAFSA applications for the Federal Work-Study Program (FWS) and the Federal Supplemental

Educational Opportunity Grant (FSEOG) dated May 15, 2014 or earlier will be given first priority in determining FWS and FSEOG eligibility.

Enrollment Status

The amount of federal financial aid a student is eligible to receive is dependent on the student's enrollment status each term based on the following table. Credit hours are computed using all developmental and college credits in which the student is enrolled.

Full-Time Enrollment	Three-Quarter Time Enrollment	Half-Time Enrollment	Less Than Half-Time Enrollment
12 or more credit hours	9-11 credit hours	6-8 credit hours	1-5 credit hours
450 clock hours	Clock hours/program length*	Clock hours/program length*	Clock hours/program length*

*To determine enrollment status other than full-time, as established by federal regulation, the number of clock hours the student is enrolled in is divided by the program length.
Enrollment status is based upon number of credit hours enrolled in at the END of schedule adjustment period each term.
The amount of the award will not increase if students add a class after that schedule adjustment period.
To retain enrollment status, student must attend all of their classes. Attendance for distance learning courses is defined as attending an orientation; participating in the course, as defined by the instructor; submitting course assignments, as required, to the instructor; or initiating contact with the instructor.
Failure to attend any enrolled course will lower the award status and amount.
Award emails are sent to notify students the disbursement amount based upon the number of enrolled credit hours.
Enrollment status will be determined by the number of credit hours or clock hours in which a student was enrolled on the date a student's eligibility is verified.
The end of the Schedule Adjustment Period is the last day to register for Session 1 courses during each term (Fall, Spring and Summer), as listed in the college catalog. These dates are firm. For other types of aid (state, private, etc.), the enrollment status and award amounts each term will be determined according to the requirements of each fund. For all types of aid, the enrollment status for block time, condensed or off-term classes will be determined by the Director of Financial Aid in consultation with the Dean of Students.

Student Eligibility

FEDERAL PROGRAMS

For a student to be eligible for federal financial aid at NWFSC, a student must:
Be accepted for enrollment in an approved program of study, have a high school diploma or GED
Be a U.S. citizen, or an eligible non-citizen
Not owe a refund or repayment on a federal grant at any institution
Not be in default on a federally-funded or insured student loan
Must maintain satisfactory academic progress standards

STATE OF FLORIDA PROGRAMS

For a student to be eligible for State of Florida financial aid (i.e. FSAG, FSAG-CE) at the college, a student must:
Have demonstrated a financial need (complete the FAFSA application)
Have met the advertised deadline
Have been a resident of Florida for one year or be classified as a Florida resident by the Registrar's Office
Be degree-seeking (enrolled in an A.A., A.S., A.A.S., B.S., B.A.S., or certificate program)
Have a 2.0 or higher grade point average (GPA) on all previous college work
A student must have earned credit hours equivalent to his/her enrollment status during each term of the prior academic year in

which state aid was received, (12 credit hours or 360 vocational hours for each term of full-time enrollment, 9 credit hours or 270 vocational hours for each term of three-quarter-time enrollment and 6 credit hours or 180 vocational hours for each term of half-time enrollment), and
A student enrolled as a full-time student (minimum 12 credit hours or 360 vocational hours) is eligible for a full-time FSAG or FSAG-CE award. A student enrolled part-time (6 to 11 credit hours per term or 180 to 330 vocational hours) is eligible for a part-time FSAG or FSAG-CE award. Part-time awards will be prorated according to enrollment status. FSAG and FSAG-CE awards will be offered until the limited funds are exhausted.
NOTE: An applicant who believes State of Florida financial aid has been wrongly denied has a right to appeal. The applicant may appeal to the Financial Aid Office if he/she believes an error has been made in determining eligibility.

Financial Aid Standards of Academic Progress

Satisfactory Academic Progress Requirements

To be eligible for financial aid, all students, including students transferring to NWFSC from another institution, must meet NWFSC's standards of satisfactory academic progress for financial aid. Student academic progress is reviewed at the end of each term. A transferring student's satisfactory progress will initially be determined from the student's academic history at all previously attended institutions. Students who attended NWFSC in the past will be reviewed based on all previously attempted courses, regardless of how long ago they attended NWFSC, in accordance with federal guidelines.
Failure to meet one or more of the established standards of satisfactory progress will make a student ineligible for financial aid. Students who become ineligible for financial aid due to the failure to meet the standards of satisfactory progress for financial aid will remain ineligible for financial aid until they meet the standards or are placed on an Academic Plan as a condition of their approved appeal. Satisfactory progress includes all previous academic history, even if the student did not receive financial aid.
It is the student's responsibility to monitor his or her progress. Although the Financial Aid office attempts to notify students who fail to meet the satisfactory progress standards through a letter informing them of their status, students who do not receive the notice will still be ineligible for financial aid.

Standards of Satisfactory Academic Progress for Financial Aid

Below are the standards of satisfactory progress for financial aid. These standards apply to all students:
All students must complete their degree program before attempting more than 150 % of the total credit hours required for their program.

HOURS	GPA	SUCCESSFUL COMPLETION RATE
0-11.99 attempted hours	N/A for cumulative GPA	N/A successful completion rate
12-24.99 attempted hours	must maintain a cumulative GPA of at least 1.50	50% successful completion rate
25 & over attempted hours	must maintain a cumulative GPA of at least 2.00	67% successful completion rate

In general, students who have attempted more than 150% of their program will not be eligible to receive financial aid at NWFSC even if some of their credits were attempted at another institution unless their appeal is approved and they are placed on an Academic Plan.

Financial Aid Warning Status

The first semester a student fails to meet the satisfactory progress standards for financial aid, he/she will be placed on Warning Status. While the student will continue to receive financial aid during this period, it is the student's responsibility to restore his/her academic standing for financial aid be the end of the term in which the Warning Status is given.

Failure to restore academic standing by the end of the Warning Status term will result in the student being ineligible for financial aid. Students can appeal their failure to meet standards of Academic Progress (see next section).

Appealing Satisfactory Academic Progress Requirements

Before submitting an appeal for financial aid, students should meet with an academic advisor and obtain an approved program of study. The program of study may be the basis for the student's academic plan. The financial aid director will consult with the academic advisor to develop an academic plan for the student who has appealed. This academic plan becomes the core of the approved appeal. Students have 15 days from the receipt of a letter or email notifying them of their failure to meet the standards of academic progress to appeal, or 30 days after the semester ends if written notification was not received. Appeal forms and procedures are available in the Financial Aid office and at www.nwfsc.edu.
Transfer students must meet the established satisfactory progress requirements or submit a financial aid appeal. Students can appeal their failure to meet the standards of academic progress for financial aid if unusual circumstances exist. Unusual and mitigating circumstances include, but are not limited to, a death in the student's family, medical condition, hospitalization, documented emotional distress, or other situations beyond the student's control. While federal regulations make no provision for the concept of academic amnesty or academic renewal, students are allowed to appeal those courses that were considered to be old grades and thus "reset" their academic progress. The option to "reset" is at the discretion of the financial aid committee and can be used one time only.
All situations must be fully documented.
Students' appeals are reviewed by the Financial Aid Committee. Students do not meet with the committee, and the decision of the committee is final.

Courses Paid for by Financial Aid

Repeated Courses

A student may use financial aid to repeat a course in which an "AW", "D", "IW", "F", "NG", "U", "W", "WF", "WN", "X", or "XC" has been earned. A student may not repeat a course for credit in which a grade of "C" or better was earned. The student may improve a grade in a course and the repeat credit(s) will be included in the total number of credits when determining enrollment status.

Developmental Courses

NWFSC approves developmental courses for the use of financial aid and includes developmental courses where necessary when determining a student's enrollment status. Admission placement testing requirements will determine if developmental courses are needed in a student's degree program. Financial aid will pay for no more than 30 credit hours of developmental coursework.

Program Objective Enrollment Compliance (POEC)

Federal Financial Aid (Pell Grants, Direct Loans, Supplemental Educational Grants, college work study, etc.) will only cover courses that are part of the student's declared program.
A student's eligibility will be adjusted to reflect only those courses that are within the program of study (i.e. full-time status vs. part-time status). POEC is determined by the electronic degree audit - NOT the student's paper program of study. A student's declared program must be chosen at the beginning of the semester. Changes in declared programs will not be effective for financial aid until the subsequent semester.

Random Selection for Verification

The U. S. Department of Education randomly selects a student's Student Aid Report (SAR) for verification. Students selected must provide all the requested documents needed for this process (i.e. income tax transcripts, W-2 forms). NWFSC's Financial Aid Office retains the right to request supporting documents it deems necessary from any student to determine financial aid eligibility. For this reason, the college suggests that students do not file financial aid applications until the tax forms for the family are complete and

correct. Inaccurate estimates of income and taxes paid may require extensive processing delays and verification of corrected data. All financial information reported MUST BE CORRECT. Penalties or delays may occur if the data is incorrect or incomplete. It is strongly recommended that students and parents utilize the IRS retrieval tool when completing the FAFSA.

Return of Title IV Financial Aid Funds

When a student awarded federal Title IV aid withdraws from or ceases attendance in ALL COURSES prior to completing more than 60% of a term, a portion of the student's Title IV aid must be returned to the federal programs. Title IV aid includes the Federal Pell Grant, Federal SEOG, Federal Direct Loans. Federal Work study aid and FSAG aid are not included. The college must determine the percentage of Title IV aid earned by the student. Up to the 60% point of the term, the percentage of earned aid is equal to the percentage of the term completed based on the day the student withdraws from or ceases attendance in ALL COURSES. After the 60% point of the term, the percentage of aid earned is 100%. If the student received more Title IV aid than the amount earned, the unearned amount is considered an overpayment and must be returned to the Title IV programs. NWFSC will be responsible for returning to the Title IV programs the lesser of the unearned amount of Title IV aid or the institutional charges (tuition, fees and books) incurred for the term, multiplied by the percentage of unearned aid. The student will be responsible for returning to the Title IV programs the unearned amount of aid (overpayment) minus the amount the college returns, and the amount of any unpaid institutional charges to NWFSC.
In some cases, when a student receives federal Title IV aid greater than the amount of institutional charges (tuition, fees and books), he or she will have to return a portion of the federal funds. A student will lose Title IV eligibility unless he or she returns the amount of unearned aid (overpayment) in full to the college within 45 days from the date the college notifies him/her of the overpayment, or signs a repayment agreement with the U.S. Department of Education after the 45-day period.
This policy is derived from provisions of federal law. Students receiving Title IV aid should consult with the Financial Aid Office prior to withdrawing from any or all classes.

Financial Aid Unofficial Withdrawals

Per federal regulations, schools are required to review students who received federal financial aid and failed to earn a passing grade in any of the classes. An assessment must be made to determine whether the student earned the non-passing grades while attending classes or stopped attending classes, but did not officially withdraw. Students who stopped attending classes may be required to repay a portion of their federal financial aid for that semester which will result in a debt to the college.
If a student follows NWFSC's procedures and withdraws, the student will have an official withdrawal date and their financial aid refund calculation will be completed according to NWFSC's refund policy.
At the end of each semester, all federal financial aid recipients who received no passing grades (any combination of F, I, W, WN, WF) will be reviewed to determine if the non-passing grade was earned while attending or due to no longer attending the class. Reports are generated at the end of each semester to determine the students who received no passing grades. This report is used to determine if the student completed the term and earned the "F" grade or ceased attending prior to the end of the semester. Instructors are required to indicate the last day of attendance when a grade of F is entered. The last day of attendance is then used in the calculation of the Return of Title IV Financial Aid Funds.

Veteran's Affairs Office

All new students are encouraged to visit the VAO at the Niceville campus in the Student Services Center for assistance with starting a record. NWFSC is certified for training by the State Approving Agency under the various veterans' training laws. Veterans planning to enroll and use their GI Bill should consult with the Veterans Affairs Office (VAO) well in advance of their first semester. All new veteran students should refer to the Application Procedures at the college website on our Veterans Page to establish their VA record with the VAO. VA students are also required to be familiar with the NWFSC Veteran's Handbook which explains our processes and the rules imposed by U.S. Code Title 38 and Title 10. Our Veteran's Handbook can also be downloaded from the Veteran's Page.
For VA purposes, training time for all programs, except Chapter 33 Post 9/11 GI Bill, is computed at full time, three quarter time and half time; please refer to your specific chapter payment chart at the GI Bill website. Chapter 33 does not have a half time rate; it is computed by dividing the student's credit hours by the full time rate, rounding to the nearest tenth and multiplying by the E-5 with dependent Basic Allowance for Housing rate for the schools zip code of 32578. Example: 9 credit hours divided by 12 = .75, which the VA rounds up to 80%. The local rate for zip code 32578 is $1,215, so 80% would be $972 a month in BAH. Chapter 33 students

will also receive a book stipend from the VA which is calculated at $41.67 per credit hour.

Full-Time Enrollment	Three-Quarter Time Enrollment	Half-Time Enrollment
12 or more credit hours	9-11 credit hours	6-8 credit hours
Chapter 33:	Chapter 33:	Chapter 33:
12 or more = 100%	11 = 90% 9 or 10 = 80%	8 = 70% 7 = 60%

NWFSC also has clock hour programs that the VA calculates on a weekly basis. To maintain full time status a student must have 22 clock hours per week for Applied Welding Technologies, 18 clock hours per week for Auxiliary Law Enforcement, Corrections Officer, Law Enforcement Basic, Fire Fighter, and Dental Assisting. Chapter 33 students in a clock hour program who are full time will receive $83 a month for book stipend.
Training time for the Summer Term and any accelerated session of any term is computed differently. Veterans are advised to contact the VAO before registering for Summer Term and accelerated term classes to determine training status.
All veterans who wish to receive VA benefits must provide a signed Enrollment Certification Request Drop/Add form each semester, available on our website. VA students must submit a new Enrollment Certification Request Drop/Add form for all schedule changes, to include (drop, withdrawal, never attending, reinstatement or termination of attendance). Note: VA student attendance is reported to the VA and will affect benefit payments. A Chapter 33 student's tuition is paid directly to the college by the VA. Chapter 35, 30, 1606, and 1607 students are responsible for paying their tuition by the due date; these students, including Chapter 33 students who do not have a Certificate of Eligibility, can use a VA deferment once a school year.

Veterans' Fee Deferment Policy

Any eligible VA student who wishes to pursue an approved program of study shall be granted upon request, a deferment for full payment of fees for a period determined by the Business Office, once per school year (August through July). Under no circumstances shall any person be allowed to enroll or re-enroll at NWFSC who has an unpaid fee deferment. A student who defaults on a VA deferment will lose the right to receive future deferments.

Financial Aid Administered by Northwest Florida State College

Financial Aid for 2014-2015

General Course Information

Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 27 participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at http://scns.fldoe.org.
Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.
The course prefix and each digit in the course number have a meaning in the SCNS. The listing of prefixes and associated courses is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

Examples of Course Identifiers

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
ENC	1	1	0	1	English Composition

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in Exception to the General Rule for Equivalency.
For example, a freshman composition skills course is offered by 59 different postsecondary institutions. Each institution uses "ENC_101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit "1" represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."
In the sciences and certain other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course that has the same prefix and course number but meets at a different time or place.
Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at a Florida College System institution is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent. NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

General Information

Alumni Association
Choctawhatchee Basin Alliance (CBA)
College History
College Website
Composition of Student Body
Copyright Statement for College Publications
Facilities
Foundation
Mattie M. Kelly Cultural and Environmental Institute
Mission Statement
NWFSC Alert System
RaiderNet
Social Security Number Collection and Use
Solicitation/Promotions
Student Email Accounts
Values
Vision 2020

Mission Statement

Northwest Florida State College improves lives. We deliver outstanding educational programs that are relevant, accessible, and

engaging for students of all ages and provide exceptional cultural, athletic, and economic development activities for the communities served. We commit to excellence, creativity, integrity, and services.

Values

Northwest Florida State College Values:
Opportunity - meeting each student's educational need at his or her level of ability
Excellence - achieving the highest standards
Learning - acquiring new skills, insights, and ideas
Success - preparing students for the future
Creativity - finding innovative ways to accomplish our objectives
Community - listening and responding to community needs
Teamwork - supporting and respecting each other and those we serve

Vision 2020

Vision 2020 comprises a new mission statement for the college, a statement of seven core values that are central to all our programs and services, and an accompanying Vision outline. Vision 2020 will focus the work of the college over the coming years and be fully incorporates into all aspects of college life. Vision 2020 was prepared following several months of discussion and work within various standing committees of the college. The college's governing Board of Trustees approved the new mission statement and guiding values for the college in early 2011.

Vision One: A Learning-Centered Community

Northwest Florida State College will be a college that places the teaching-learning process at the core of our existence and seeks to improve student success.
We will assess student learning, hold ourselves accountable for learning outcomes, and invest in resources to improve student learning outcomes.
We will use learning-focused methods that actively engage students and will seek to help students understand that they are an integral part of the teaching-learning process.
We will provide learning environments, both in and out of the classroom, that meet student learning needs and encourage student success.

Vision Two: Access to Opportunity

Northwest Florida State College will be the gateway to higher education opportunity for students in areas we serve.
We will provide educational opportunities at multiple sites and varying times and through alternative delivery methods that maximize the opportunity to earn an education.
We will seek efficiency and quality while maintaining an affordable tuition level.

Vision Three: Community Engagement

Northwest Florida State College will be recognized as a critical community resource and a valuable partner in advancing cultural, economic, and educational aspirations.
We will develop partnerships with community organizations to promote educational opportunity.
We will provide a rich inventory of cultural, athletic, life-long learning, and academic experiences that engage community members in the life of the college.
We will offer cultural and educational opportunities to the many constituencies we serve in a deliberate effort to broaden and enrich the lives we touch.

Vision Four: Institutional Growth

Northwest Florida State College will seek to grow strategically in areas that increase our impact on the communities we serve.
We will increase program offerings and enrollments in baccalaureate and career/technical programs.
We will increase the proportion of students we enroll from the communities we serve.

Vision Five: Financial Stewardship

Northwest Florida State College will be financially secure and will practice wise financial stewardship.
We will grow the College Foundation's asset base and increase its annual impact on the college.
We will maintain sufficient financial reserves to provide security, flexibility, and institutional innovation and development.

Vision Six: A Great Place to Work

Northwest Florida State College will be one of the leading employers in our service area by offering competitive compensation packages and investments in personal and professional development programs and will place and emphasis on job security.
We will offer a combination of salary and benefits that allows us to recruit and retain the best possible employees.
We will invest in the personal and professional development of our workforce and provide employees with the tools they need to do their jobs well and prepare them for future career opportunities.

College History

Northwest Florida State College is part of the Florida College System, a network of 28 public state and community colleges. NWFSC offers postsecondary education opportunities to more than 17,000 students annually. Located in the coastal heart of Northwest Florida, the college has earned a reputation for educational excellence and community involvement in its 50 year history. The college operates seven area campuses and centers in Niceville, Fort Walton Beach, Crestview, DeFuniak Springs, South Walton County, and at Eglin Air Force Base and Hurlburt Field.
The Florida Legislature initially established the college, originally known as Okaloosa-Walton Junior College, as the 18th of the state's eventual 28 community colleges in 1963. The institution was named Okaloosa-Walton Junior College in March 1964 and opened for students in August 1964. The college's District Board of Trustees changed the name to Okaloosa-Walton Community College (OWCC) in March 1988 to recognize the college's expanded role in economic development, cultural programs and other endeavors. Further expansion of the college's mission occurred in April 2003 when the Florida State Board of Education authorized OWCC to develop baccalaureate degree programs. In December 2003, the Commission on Colleges of the Southern Association of Colleges and Schools approved Level II status for the college to grant baccalaureate degrees. The college name officially changed to Okaloosa-Walton College (OWC) on July 1, 2004 to reflect the college's new status to award bachelor's degrees. The college began a Bachelor of Applied Science in Project and Acquisitions Management and a Bachelor of Science in Nursing (a joint program with the University of West Florida) in the Fall 2004 semester. In 2007, the Florida Department of Education authorized the college to add baccalaureate degrees in Teacher Education and in 2008 the college's joint Bachelor of Science in Nursing program was approved as a stand-alone BSN program to become the college's third baccalaureate program.
The 2008 Florida Legislature passed the State College Bill (SB 1716) to maximize student access to baccalaureate degrees, respond to community needs for postsecondary education, and provide the degrees that best meet Florida's employment needs. The bill was signed into law by Florida Governor Charlie Crist on June 12, 2008 at a ceremony held at the Mattie Kelly Fine and Performing Arts Center on the college's Niceville Campus. In response to Okaloosa-Walton College's new role as one of Florida's first state colleges, the OWC District Board of Trustees voted on July 8, 2008 to officially rename the institution as Northwest Florida State College. While the mission of the college has expanded, NWFSC continues its long-standing commitment to open-door admissions, associate degree programs, adult education, certificate programs, and affordable tuition. NWFSC has also maintained the school's traditional scarlet and silver colors and the Raiders name for sports programs.
Northwest Florida State College began a year-long recognition of its 50th Anniversary on April 17, 2013 - encompassing the 50th anniversary of the establishment of the college by the Florida legislature in April 1963 through the first semester at Okaloosa-Walton Junior College (OWJC) in August, 1964. The 50th Anniversary focused on "Continuing the Vision" of improving lives through higher education - a vision that started in 1963 with OWJC and continued through the college's years of service as Okaloosa-Walton Community College (OWCC- 1988 to 2004) and Okaloosa-Walton College (OWC-2004-2008) though its current status as a state college (2008 to present).
The college currently offers baccalaureate programs in Project Management, Management and Supervision, Nursing, Elementary Education, Middle Grades Math Education, Middle Grades General Science Education and Early Childhood Education, Birth through Four. Additional bachelor's programs may be phased in over the coming years based on regional needs and feasibility. As

NWFSC fulfills its role as a state college, students benefit from the opportunity to have accessible, low cost baccalaureate degrees that meet their aspirations as students and meet the needs of higher education in Florida.
In addition to a 264 acre campus in Niceville, NWFSC operates a joint campus with the University of West Florida in Fort Walton Beach, the Chautauqua Center in DeFuniak Springs, the Robert L. F. Sikes Education Center in Crestview, the South Walton Center in Santa Rosa Beach and full-time centers at Eglin Air Force Base and Hurlburt Field.
When its doors first opened in August of 1964 in a temporary campus of vacant buildings in Valparaiso, OWJC had a faculty of ten instructors, three support personnel and five administrators for the 309 full-time and 458 part-time students on hand. Now, approximately 102 full-time and 293 part-time instructors, as well as 455 support staff and 16 administrators serve 17,000 students annually. Since its inception, more than 302,000 persons have been served by OWJC, OWCC, OWC and NWFSC.
Located between State Roads 85 and 285, the 264 beautifully wooded acres of the college's main campus in Niceville were transferred to OWJC from the Eglin Air Force Reservation by an Act of Congress in January 1966. In 1989, another Act of Congress designated a permanent site for the 156 acre Fort Walton Beach Campus.
Throughout the college's history, NWFSC has maintained a consistent record of educational excellence. The median grade point average for NWFSC students who transfer to the State University System consistently ranks among the top five in the state. NWFSC professors have been recognized with numerous state and national level awards for instructional excellence. The college's Forensics/Debate and Brain Bowl academic teams have achieved numerous state and national championships. NWFSC students and student athletes are also consistently named to the All-Florida Academic Teams.
In addition to a record of regional and national accolades, NWFSC offers state-of-the-art student computer labs, a top-rated sports complex, a full program of intercollegiate and intramural sports, an ROTC program, a child development center, and a criminal justice training center. The 120,000 square foot Mattie Kelly Fine and Performing Arts Center on the Niceville Campus provides students the finest in instructional facilities for dance, music, theater, the visual arts and the humanities.

Facilities

Niceville Campus
The Niceville Campus is located between State Roads 85 and 285 off of College Boulevard. The Niceville Campus includes the following permanent facilities:
Administration (A): houses the executive and administrative offices, including Academic Affairs, Administrative and Financial Services, Marketing and Public Relations, the NWFSC Foundation and the Alumni Association.
Technical Laboratories (B): houses drafting and design, laboratories for computer-assisted drafting (CAD) and computer-aided manufacturing (CAM), Architecture Studio for AA in Pre-Architecture, Computer Engineering Technology, IT Security, and Network Systems Technology. The building also contains the James Leslie Gibson Drafting Classroom and the college's CISCO Academy and Microsoft IT Academy.
Building C-1 (C-1): The food service operations on the Niceville campus offers a Doolittle Café snack bar/coffee shop in building C-1. Current hours of operation are Monday to Thursday from 7:30 am to 1:30 p.m. This is an additional location of the primary full-service Raider Café located in the Student Services Center (building SSC).
Building C-2 (C-2): houses ten state-of-the-art, general-purpose classrooms.
Collegiate High School (D): houses the Collegiate High School Offices, classrooms and labs.
Classroom Building (E): houses the college's various healthcare education programs and a variety of other instructional programs. Located on the upper north mezzanine levels an open computer lab, three computer labs/classrooms, and faculty offices for the Division of English/Communications and Social Sciences. The first floor level contains additional faculty offices and classrooms, as well as the main office for the Division of English/Communications and Social Sciences and the Bill and Pearl Robinson Classroom. The college's Nursing and Allied Health programs in registered nursing, radiography, and dental assisting are located in the center core of this building; named the Gallimore Center for Healthcare Education. Located within the Gallimore Center for Healthcare Education are the Fort Walton Beach Medical Center Nursing Lab, the Marjorie Cox Gray and Hugh Gray Health Technology Computer Lab, the Meagan Campbell Nursing Lab, the Twin Cities Hospital Surgical Technology Lab, the Juanita Harbaugh Nursing Classroom.
Public Safety (F): houses the facilities, offices, classrooms, and specialized laboratories for programs offered by the Florida Criminal Justice Training Center No. 21 and the college's Public Safety Division, including the college's EMS/EMT/Paramedic, Fire Service, and American Heart Association programs. The division also utilizes a specialized P.A.T. (Physical Agilities Test) course, located off of West McCracken Way (the campus loop road).
Utilities, Maintenance, and Receiving (G), (G-1), (G-2) and (G-3): houses the air conditioning and heating equipment, central services, maintenance, custodial, physical plant, receiving, grounds functions and security office. Building (G) is designated as the Maurice F. Mettee Engineering Plant.
Gymnasium and Public Safety (H): a multi-purpose facility used to house indoor physical education activities and classrooms and

specialized laboratories for the Public Safety Division.
Mattie Kelly Fine & Performing Arts Center (J):, the main building houses the Mainstage Theater, the Frances Smith Herron Dance Studio, Box Office, and offices for the Division of Humanities, Fine & Performing Arts. The smaller Sprint Theater is located adjacent to the main theater. A central circular sculpture courtyard, which features the college's signature "Seven Dancers" sculpture, connects the theater building with two instructional wings. The Music Wing contains the Tyler Recital Hall (Eva "Kay" and Don Tyler), the Dewitt and Else Hardmant Orchestra Rehearsal Hall, the Dewitt and Else Hardmant Recording Studio, and various other performing arts Instructional facilities, classrooms and musical studios. The Art Wing contains two art galleries -- the Holzhauer Gallery and McIlroy Gallery, as well as an Art History classroom. An outdoor amphitheater is located behind the main complex as is the circular Marie Snow Greene Visual Arts Building. The Seven Dancers courtyard is ringed with benches, which are named in memory or in honor of individuals including: Marvin and Nina Adams, Belinda Besse, Dr. Joseph Matthews, James H. and Mary R. Dietz, James Leslie Gibson, Terry Tislow, Sidney and Agnes Bangma, and Julie A. Massey.
Marie Snow Greene Visual Arts (J): a unique circular building in the Mattie Kelly Fine & Performing Arts Center complex that houses instructional art programs in pottery, drawing and painting is named for arts patron Marie Snow Greene. The Dotty Blacker Gallery is located in the center rotunda of the building and the facility also contains the George S. and Frederick F. LaRoche Painting Studio.
Activities Center (K): This building houses the Barnes and Noble College Store, Student Life, The Academic Success Center (ASC) and Florida's Great Northwest as well as a conference room for general use.
Mathematics (L): houses offices, classrooms, and specialized laboratories for the mathematics department. The building also contains the Shirley A. Howard Classroom.
Learning Resources Center (LRC): houses a collection of more than 100,000 items. There are 90,000 books, 10,000 audiovisual items, 300 magazine and newspaper subscriptions, 200 electronic databases and websites with online full-text periodicals and over 30,000 eBooks. A statewide network provides access to the holdings of all 11 state university libraries and 28 college learning resources centers, numerous electronic databases and worldwide information sources through the Internet. The LRC also contains conference room facilities and group study space.
Mary Lou O' Connor Child Development and Education Center (M): houses a Child Development Education Center for pre-school age children and features the Sarah Brennan Goodwin Child Development Center Playground.
Business and Computer Technology (P): houses facilities for instructional programs in business education, business administration, computer science, mid-management and the Bachelor of Applied Science in Project Management. The building contains the offices of the college's Business and Computer Technology Division and offices for the Bachelor of Applied Science degree in Project Management, including faculty offices. The building also contains the William T. Neshem, Mickey and Dottie Gilmore, and Blanche and Allyn Donaldson classrooms.
Teacher Education and Graphic Services (Q): houses offices and classrooms for the college's Teacher Education programs including the Bachelor of Science in Education degrees and the Bachelor of Science in Early Childhood Education, Birth through Four. The college's Graphic Services department, which serves college faculty and staff, is also located in this building.
Public Safety Firing Range (Q-2): is located behind building (M) on the northeast corner of the Niceville Campus.
Applied Welding Technologies and Machining Programs: (Q-3): is located across the street from building (Q) on the northeast corner of the Niceville Campus and houses the Applied Welding Technologies program and Machining programs.
Public Safety Fire Training Building: is located north of the softball field.
Public Safety Driving Range: is located north of the softball field and provides a specialized driving pad for Public Safety motor vehicle training and motorcycle rider safety courses.
Computer Services (R): houses the college's Information Technology staff and the Learning Technologies Offices.
ROTC Rappel Tower: is located north of the softball field. Access is on a select/restricted basis through the college's ROTC program.
ROTC Challenge Course: a military Confidence Course, located north of the Public Safety Driving pad off of West McCracken Way (the campus loop road), was designed based on a similar facility at the U.S. Army base in Fort Benning, GA. Access to the course is on a select/restricted basis through the college's ROTC program.
Robert E. Greene Jr. Science Building (S): houses classrooms and laboratory facilities for programs in the biological and chemical sciences. The two-story main building contains science classrooms numbered S100 and S200 and provides space for the college's Mattie M. Kelly Environmental Institute. An adjacent one-story general classroom building is connected by a covered breezeway. This building contains classrooms numbered S300 and the Carroll Richard Stegall Classroom.
Observatory (S-2): located on the northwest corner of the Niceville Campus, the Observatory houses an 18" automated reflective telescope, complete with a CCD camera and software to allow the location and recording of events in the sky, and a classroom for Astronomy classes (numbered S402).
Student Services Center (SSC): The second floor houses the Welcome Center, Admission, Registration, Financial Aid, Veteran's Affairs (VA), the Business Office (Cashier), the Testing Center, Advising, the Office of Disability Support Services, Recruiting, and

the Career Center. The courtyard level houses food services and several multipurpose meeting spaces. The third floor houses the Costa Leadership Institute, which includes a variety of specialized meeting and conference facilities including the Janet Nadel Morell Conference room, the Charles K. and Eileen H. Arpke and the Carr, Riggs and Ingram Conference rooms, as well as the Goetsch Gallery.
The Sports Complex: is located on the west side of the Niceville Campus and contains field houses for men's and women's baseball and softball, two diamonds, bleachers, and a Strength Training Center.
Community Service Complex (Arena, ROTC, Emergency Operations Center, Doolittle Raiders History Exhibit) (T): A multi-purpose facility which houses the college's Division of Athletics, Health and Fitness, a 2,200 seat basketball Arena, Wellness classrooms, a Fitness Center, the Raider room, and the Col. George E. 'Bud' Day Wing of the complex, which houses the college's ROTC program. A permanent Doolittle Raiders History Exhibit is located in the lobby of the Raiders Arena to honor the WWII heroes for whom the college's athletic teams are named. The museum-quality exhibit is free of charge and open from 8:00 a.m. to 4:00 p.m. Monday to Friday and during events held in the Raiders Arena. For information on the exhibit call 729-5203. Okaloosa County's Emergency Operations Center (EOC) and 911 Call Center is also located in the complex. The entire facility is hardened to withstand 190-mph winds and the Arena may serve as a public emergency shelter.
Northwest Florida State College and University of West Florida Fort Walton Beach Campus
The Fort Walton Beach Campus is a fully combined joint campus which provides higher education opportunities ranging from Associate to Doctoral degree programs, as well as non-credit and adult basic education programs. In addition, the campus houses various economic development programs including the Economic Development Council of Okaloosa County, the Technology Coast Manufacturing & Engineering Network and the Quality Institute. The campus is located on a 156-acre wooded site owned by NWFSC on Martin Luther King, Jr. Boulevard, and includes the following permanent facilities:
Administration (1): houses administrative offices and the business and registration offices of both institutions, a large community meeting room, and two conference rooms.
Student Affairs (2): houses the Barnes & Noble College Store, student center and student government offices.
Classroom Building (3): houses classrooms and the adult basic education offices. This building contains the Evelyn Walters Nelson Classroom, the Crystal Beach Development Classroom, the Heapy Family/Carpet One Classroom, the Howard F. McGee/First City Bank Classroom, G.L. "Jack" Prince, Jr./First City Bank Classroom, and the Katherine C. McGee/First City Bank Classroom.
Classroom Building (4): houses faculty offices, classrooms, a reading improvement laboratory, some tutoring services and the academic counseling/advising office.
Utilities and Maintenance Building (5): houses the air conditioning and heating equipment, central services, maintenance, and custodial/grounds functions for the campus.
Science Building (6): houses science laboratory facilities for programs in earth science, biology, chemistry, and physics.
Computer Labs (7): houses computer laboratories, the Math Lab, classrooms, and various Economic Development programs. The building also contains the Judge Ben Gordon Classroom.
Library, Fitness Center, Auditorium (8): houses the Campus Café coffee shop, a graduate level library operated by the University of West Florida, a fitness center, and a 230 seat lecture auditorium.
Chautauqua Center
The Chautauqua Center is located on 90 wooded acres along Highway 90 West in DeFuniak Springs, and offers a full range of college services and programs. The center houses two computer labs, a career center, small conferencing facilities and a child care center, as well as the L.E. "Zack" and Henrietta Laird Classroom and the T.P. and Annie R. Campbell Classroom.
Robert L. F. Sikes Education Center
The Robert L. F. Sikes Education Center in Crestview is located on East James Lee Boulevard (State Highway 90 East) and offers a full range of college services and programs. The center houses two computer labs, classrooms, and administrative/student services space, as well as the Margaret S. Gebauer Literacy Classroom.
South Walton Center
The South Walton Center is located on Greenway Trail, just off Highway 331 South in Santa Rosa Beach is a full-service center that offers college credit, adult basic education and other courses and provides placement testing, advising and program planning, registration and financial aid services. The center houses the offices of the college's Choctawhatchee Basin Alliance (CBA) and the Allyn C. Donaldson Entrepreneurial Center that is part of the college's Costa Leadership Institute at NWFSC.
Eglin Air Force Base and Hurlburt Field Centers
The Eglin AFB and Hurlburt Field Centers offer college credit and noncredit programs for military and civil service personnel. Also offered are courses specifically geared toward the Community College of the Air Force (CCAF) studies and other courses designed to meet the needs of individual military units, base contractors, and individuals who are retiring from the military.

Foundation

The Northwest Florida State College Foundation, Inc. is a non-profit organization which seeks tax deductible contributions to help the college promote academic excellence through scholarships, instructional enhancements, and educational equipment acquisition.
The Foundation was established in 1988 to give individuals, organizations and businesses the opportunity to directly invest in the educational mission of the college. As an IRS 501 (c)(3) organization, donations to the Foundation are tax deductible. The Foundation has a Board of Directors comprised of business and community leaders in Okaloosa and Walton counties.
The Foundation is vitally important to the quality and diversity of higher education in our community. The foundation operates under the philosophy of building principal and using the interest to support various NWFSC endeavors. For information, contact the Foundation Office at (850) 729-5357 or visit www.nwfscfoundation.org.

Alumni Association

The Northwest Florida State College Alumni Association's purpose is to provide our alumni -- OWJC, OWCC, OWC, and NWFSC alike -- a means to remain involved in the college. Membership in the Alumni Association is open to all graduates and to any student who has attended the College. For more information please contact the NWF State College Foundation at (850) 729-5357 or visit www.nwfsc.edu/alumni.

Mattie M. Kelly Cultural and Environmental Institute

The Mattie M. Kelly Cultural and Environmental Institute was established in 1997. The institute is a partnership of NWFSC, the NWFSC Foundation, and the Choctawhatchee Basin Alliance of NWFSC, dedicated to the cultural, environmental, historical and instructional goals set forth for the institute by the late Mattie M. Kelly of Destin. The objectives of the institute are: to conduct biology and marine science studies associated with Choctawhatchee Bay and the Gulf of Mexico; to display the cultural heritage of Northwest Florida; to provide instruction in the Fine & Performing Arts and Environmental Sciences; to provide a location for fine arts groups and performing groups; and to provide a location for conferences and seminars offered through NWFSC. For information call (850) 729-5357 or visit http://www.mattiekellyinstitute.org/.

Choctawhatchee Basin Alliance (CBA)

The Choctawhatchee Basin Alliance (CBA) program of NWFSC is an organization committed to sustaining and providing optimum utilization of the Choctawhatchee Basin watershed. CBA provides opportunities for citizens, educators, and technical experts to promote the health of the Choctawhatchee Basin watershed. For more information on CBA visit www.basinalliance.org, follow them on Facebook and Twitter or call (850) 200-4171.

Composition of Student Body

NWFSC is a coeducational institution serving approximately 17,000 students annually. Students age 16 to 24 comprise 55 percent of the student body. Students age 25 to 34 comprise 24 percent and students 35 to 49 comprise 18 percent. Other age students comprise the remainder of the student population.

College Website

The Northwest Florida State College website is located at www.nwfsc.edu. The website provides access to College information such as admission, registration, financial aid, bookstore, student life, academic resources, instructor websites and more.

RaiderNet

RaiderNet is the student on-line information and registration system. RaiderNet provides access to update contact information, register for classes, view grades, obtain unofficial transcripts, enrollment verification, degree audit, and financial aid status. RaiderNet utilizes a Personal Identification Number (PIN). To access RaiderNet from the college's homepage, click the quick link on www.nwfsc.edu. For questions concerning access to RaiderNet, call (850) 729-6922.

Student Email Accounts

Students are assigned an NWFSC student email account during the application for admission process. The student email address serves as the official method of communication to the student from the college. This email service is reserved for college business. For more information and to access student email, go to www.nwfsc.edu. Send questions concerning access to student email to helpdesk@nwfsc.edu or call (850) 729-5396.

NWFSC Alert System

Northwest Florida State College's safety Alert system enables the college to reach students with emergency information and updates through immediate, direct communications to automatic phone calls, text messages and emails issued by the college. Students who wish to receive NWFSC Alert phone and text messages by automatic notification to their personally selected contact list, must sign up for this free service through the RaiderNet system. It is the student's responsibility to maintain the accuracy of the information and to provide their preferred contact information so that they can be reached in the event of an emergency. In addition, a student may add a parent, guardian or spouse to their emergency contact list.

Solicitation/Promotions

Agencies or organizations that request permission to display, distribute, or present programs that are not within the educational mission of Northwest Florida State College must submit a request in writing at least two weeks prior to the proposed activity. This request shall contain the name of the organization, the proposed time, date, and location, and the topic of the items to be displayed or distributed. The agency or organization must complete an Events Proposal form which will be routed for review and approval to the Vice President of Administration for final approval by the College President or his designee. The college reserves the right to determine the time, place, and manner of the presentation.

Social Security Number Collection and Use

In compliance with Florida Statute 119.071(5), 229.559 and School Code 1008-396. Northwest Florida State College collects the Social Security Number for use for the College's functions, tracking responsibilities and assisting students from K-20 in post-secondary education. The College will never release your Social Security Number to unauthorized parties. To protect your identity, each student will be assigned a secure unique student identification number. Your unique student identification number is used for all educational purposes at NWFSC.
Federal legislation requires the college to collect Social Security Numbers to report to the Internal Revenue Service. A student can refuse. However, refusing to comply with Federal guidelines can result in a fee.
All Social Security Numbers are protected by federal regulations and are not released to unauthorized parties.

Copyright Statement for College Publications

College policy (Policy No. GP14.00) states that employees and students will comply with the U.S. Copyright Law (Title 17, U.S. Code, Section 101). Employees and students may use, perform, or reproduce copyrighted works when authorized by (1) licenses or written permission from copyright owner; (2) the fair-use guidelines (available from the Learning Resources Center); (3) the principle of fair use; (4) specific documented exemptions in the law. Copyright items include print, video, electronic data, performances, music, and computer software.
Employees and students who willfully disregard this policy or the specific provisions set forth in the college copyright manual (available in the Learning Resources Center) are subject to state and federal penalties, including civil and criminal liability, as well as college disciplinary action. The college will refuse to grant requests if fulfillment of the request might lead to a violation of the copyright law. Further information is available from the office of the director of learning resources, (850) 729-5392.

Graduation

Additional Degrees
Diplomas
Effective Catalog Policy
Graduation Ceremonies
Graduation Honors
Graduation Process
Graduation Regalia
Student Responsibilities

Student Responsibilities

Students must apply for graduation before a degree will be posted on an official transcript. During the next to last term of enrollment, students should contact an academic advisor or counselor to ensure they meet all graduation requirements. Students will receive an email from their Academic Advisor regarding their graduation status. Final responsibility for meeting graduation requirements rests with the student, including applying for graduation by the deadline. If a student does not meet graduation requirements in the semester for which they have applied, the student must re-apply for graduation in the term they plan to complete the requirements.

To be eligible for graduation a student must have a complete admission file. This includes all certificate programs as well. All official transcripts must be received before the program completion can be posted to the transcript. If a student has an incomplete file or is completing the remaining courses as a transient student at a different institution, the official transcript must be received by the current semester's deadline. Refer to your student email account for notifications regarding the deadline.

Students are responsible for selecting courses that meet program requirements and for earning the required minimum grades in those courses. Contact your advisor by mid-term of the term prior to the one in which graduation is anticipated to schedule an appointment to have your records checked. Students may review their graduation progress through the degree audit component of RaiderNet.

The college reserves the right to process students for their degree or diploma even if a graduation application is not submitted.

Effective Catalog Policy

A student must follow the requirements in effect at the time of initial enrollment in a program of study, and the student is expected to complete the program within five catalog years. A student who is not continuously enrolled and is required to be readmitted must complete requirements for graduation under the catalog in effect at the time of re-entry. A student who does not complete the requirements within five catalog years will be evaluated for graduation using current catalog requirements.

Continuous enrollment is defined as enrollment in at least one course per major semester (Fall, Spring) during an academic year.

Additional Degrees

A student who earns a degree may be granted a second or additional degree under the following conditions:

No more than one Associate in Arts degree may be granted.

A Bachelor of Science, Bachelor of Applied Science, Associate in Science, Associate of Applied Science degree may not be earned in the same program.

The written degree plan for an additional Bachelor of Science or Bachelor of Applied Science degree shall specify the prerequisite and core courses for the additional degree. In meeting these requirements, the student may use courses completed for a previous degree. However, the student must complete at least 30 additional credits. The additional 30 credits may be core credits and/or general education credits but are usually technical courses that support the specific program of study. The degree plan including the additional courses must be approved in advance by the appropriate Department Chair, the college Registrar and the Vice President of Academic Affairs.

The written degree plan for an additional Associate in Science degree shall specify the prerequisite and core courses for the additional degree. In meeting these requirements, the student may use courses completed for a previous degree. However, the student must complete at least 15 additional credits unless otherwise approved by an approved program of study. The additional 15 credits may be core credits and/or general education credits but are usually technical courses that support the specific program of study. The degree plan including the additional courses must be approved in advance by the appropriate Department Chair, the College Registrar and the Vice President of Academic Affairs.

All other requirements for graduation remain in effect for students pursuing additional degrees.

The Graduation Process

Each student must submit an Application for Graduation through RaiderNet by the published deadline. Applications received after the published deadline will be reviewed for graduation in the following semester. Students are encouraged to apply for graduation one term in advance of anticipated program completion.
Upon receipt of the Application for Graduation, an Academic Advisor will review the student's permanent record at the College and notify the applicant of their status by sending an email to the student's NWFSC email account. All admissions conditions and financial obligations must be resolved prior to graduation.
At the end of the term, graduates are reviewed for final program completion. Graduation will be posted to the official transcript within 10 business days of the final grade reporting date for instructors.

Graduation Honors

For students enrolled in a degree program (Baccalaureate and Associate) at the time of graduation, a student's total academic record is included in the calculation to determine recognition of outstanding academic achievement. If the student's cumulative grade point average for all college and vocational courses completed at NWFSC and at other transfer institutions meets the standards, and if the student meets all other graduation requirements, he or she will be graduated with the appropriate level of honors. The honors will be posted on the diploma and the transcript. Honors for students enrolled degree programs include:

Cum Laude	Magna Cum Laude	Summa Cum Laude
Cumulative GPA of 3.50 – 3.79	Cumulative GPA of 3.80 – 3.99	Cumulative GPA of 4.00

For students enrolled in a certificate or diploma program (Career and Technical, Vocational, College Credit or Applied Technology Diploma) at the time of graduation, all coursework pursued for the certificate or diploma will be included in the calculation to determine recognition of outstanding academic achievement. If the student's grade point average for the certificate or diploma course meets the standards, and if the student meets all other graduation requirements, he or she will be graduated with the appropriate level of honors. The honors will be posted on the diploma and the transcript. The honors for the students enrolled in certificate or diploma programs include:

Honors	High Honors	Highest Honors
Cumulative GPA of 3.50 – 3.79	Cumulative GPA of 3.80 – 3.99	Cumulative GPA of 4.00

Graduation Ceremony

NWFSC hosts two graduation ceremonies at the end of Spring semester. The ceremony honors graduates from the previous Summer, Fall semester as well as potential Spring semester graduates. For more information regarding the Commencement Ceremony, please refer to the Graduation webpage.

Graduation Regalia

Graduation regalia to include cap, gown, tassel, baccalaureate stole are available at the Barnes and Noble College Stores located on the Niceville campus approximately four weeks prior to graduation. Graduation regalia are required for participation. Borrowed regalia is not permitted. For more information regarding graduation, please refere to the Graduation webpage. For additional information concerning graduation regalia, please call the Niceville Barnes and Noble College Store at (850) 729-5384.

Diplomas

Diplomas are mailed 6-8 weeks after the close of each term to the address on the graduation application. Diplomas are issued in the name provided on the graduation application.

Paying for College

Fees
Full Cost of Instruction for Third Attempt
RaiderCards
Testing Fees
Other Fees and Charges
Parking Fines
Fines and Debts to the College
Cost Summary
Student Tuition Payment Plan
Military Assistance
Refund Policy
Testing Fees Refund Policy
Dishonored Check Policy

Full payment of tuition and fees is required when registering for classes at NWFSC. Payment due dates are printed on the student's registration receipt and on RaiderNet. Payment may be made using cash, check, e-check, MasterCard, Visa, American Express, or Discover credit cards. Students who have not paid their fees will not be admitted to classes and will be dropped from their classes on their payment due date. The College may grant deferments as specifically defined by Florida Statutes.

Fees

These fees are subject to change by the Florida Legislature and the Board of Trustees. Current fees are available from the College Business Office and are published in the class schedule. These fees apply whenever applicable, except: (1) for courses in which complimentary instructional services or equivalent program costs are provided by appropriate persons, agencies or organizations; or (2) when specifically waived by the Board of Trustees. Active Duty Military and their dependents pay only Florida Resident, in-state fees, see the

AA and AS Degree Admission Requirements
Adult General Education
Alabama Residency
Bachelor Degree Admission Requirements
Certificate and ATD Admission Requirements
Collegiate High SchoolConditional Admission
Florida Residency for Tuition Purposes
Get Started
International Students
Limited Access Programs
New Student Orientation
Non-Degree Seeking Students
Programs with Additional Admission Requirements
Readmission
Simultaneous Enrollment for High School Students
Transfer Students
Transient Students from Other Institutions

Northwest Florida State College is an open-door institution. However, depending on the student's program of study, certain admission criteria must be met. In most cases a student must be able to provide documentation that he/she is no longer enrolled in a K-12 system and is at least 16 years old.

Get Started

It's free to apply to Northwest Florida State College. Apply online at www.nwfsc.edu/admissions.
Apply for Financial Aid. Complete a Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov. NWFSC's school code is 001510. Applications for federal financial aid should be made well in advance of enrollment of courses. Students not meeting the priority deadline might still qualify for financial aid but may experience delays in receiving financial aid. For more information contact the Financial Aid Office at (850) 729-5370 or visit www.nwfsc.edu/financialaid.
Request official transcripts, as applicable, which include the following: high school or GED transcript, Home Educated Affidavit, official college and/or university transcripts from all institutions attended, and official score reports from CLEP, DANTES, AICE, AP, or IB. Transcripts noted as 'Issued to Student' are not considered official. Please request official transcripts to be sent directly to: Admissions Office: NWFSC, 100 College Boulevard, Niceville, FL 32578
Either submit placement test scores that are less than two years old (ACT, SAT) or take the Postsecondary Education Readiness Test (PERT) at NWFSC. The PERT is free for a student's first attempt. Transfer students who have satisfactorily completed college level English and math courses are not required to take a placement test. Testing is for placement purposes only and is not a criterion for admission. See the Placement Chart in the Instruction section of the catalog for a list of the test scores that correspond to courses.
Northwest Florida State College offers an in-person free orientation for all new or returning students. For more information and dates visit www.nwfsc.edu/orientation.

All first time, college degree seeking students are required to meet with an Academic Advisor before they may register for classes their first semester. Students may schedule an advising appointment, contact an Acadmic Advisor via phone or email or visit one of NWFSC's seven locations on a walk-in basis to discuss the important aspects of their educational goals. While new degree seeking students are required to meet with an Advisor, all students can benefit from a meeting with an Advisor. Academic Advisors will guide you regarding placement testing, college readiness skills and other tools and information to ensure academic success.
Use your college assigned student email. Students are automatically assigned a college student email account during the application for admission process. The student email address serves as the official method of communication to the student from the college. Each applicant will be notified by email of acceptance or non-acceptance, wait list notification for full classes are sent to NWFSC student email and more. For more information and instructions on student email, see the Student Email webpage.
Enroll for classes online at RaiderNet.
Pay fees through RaiderNet or at any NWFSC location. Students need to pay special attention to their payment due dates. Courses could be dropped if fees are not paid on time. Northwest Florida State College offers a variety of financial assistance for students including a tuition payment pay through NelNet. For more information contact the Business Office at (850) 729-5355.
Attend your classes and get involved in Student Life!

Readmission

Any student who has previously attended or applied to NWFSC, and who has not been in attendance within one (1) year (3 semesters) must reapply online at www.nwfsc.edu/admissions to update personal data, verify educational goals and residency. If the student attended another institution in the interim, an official transcript must be submitted from that institution. The student will complete requirements for graduation under the catalog in effect at the time of re-entry.

Transfer Students

A student who has attended any college or university prior to enrolling at NWFSC is considered a transfer student. Transfer students must request that an official transcript(s) of all previous college work be sent directly to the Admissions Office. All re-enrollment forms and supporting documents must be submitted in sufficient time to permit processing and notification of admission status prior to registration. In certain instances, applicants may be conditionally admitted as provided below.

Conditional Admission

An applicant who has completed admission forms, but has not been fully accepted for admissions may be permitted to attend in a "Conditional Admission" status for one (1) term to allow for admission requirements to be met. During this time, any course credit "earned" will not be released until all outstanding requirements have been met. Neither official transcripts nor financial aid will be released for any courses in which the applicant is enrolled. Conditions attached to any enrollment must be satisfied before the end of the term.
One of the opportunities available to high school seniors about to graduate is Conditional Enrollment at the college for the Summer Term. Under this specialized enrollment, graduating seniors may enroll at their own expense in courses during May of the year they are to graduate. Dual Enrollment, Federal Financial Aid and most scholarship opportunities are not available under Conditional Enrollment status.

New Student Orientation

All degree-seeking students who are new to NWFSC are expected to attend the New Student Orientation. New Student Orientation provides students with valuable information about college resources, academic advising and programs. For more information and dates visit www.nwfsc.edu/orientation.

Associate in Arts and Associate in Science Degree Admission Requirements

An applicant for admission to the Associate in Arts or Associate in Science degree programs must be a high school graduate and may be admitted with one of the following:
High School Diploma Florida public high school graduates must have earned a standard high school diploma. An official high

school transcript with high school graduation date is required. Applicants who have earned the Florida Certificate of Completion or the Florida Special Diploma should contact the Admissions Office to discuss alternative admission options. Non-Florida public high school graduates must have earned the equivalency of a standard Florida public high school diploma. All other diplomas must be validated. Institutions that are not registered with a department of education from a U.S. state or U.S. territory, or that only offer an exam for diploma, are automatically denied.
State Equivalency Diploma (GED) Students who have received the General Education Diploma (GED) are entitled to admission to all degree programs. An official transcript of the GED results is required for admission.
Home-Educated Students Home-Educated students must complete an Affidavit for Home-Educated Students form verifying high school graduation. These forms may be obtained from the Admissions Office.
Foreign Educated Students Foreign educated students who have earned an education equivalent to a US secondary school education must use one of the agencies sanctioned by the National Association of Credential Evaluation Services, Inc. (NACES) to translate and validate their high school diploma. Students will need to have the official evaluation sent to NWFSC. For more Information please refer to the NACES website at www.naces.org.

Certificate and Applied Technology Diploma Admission Requirements

An applicant for admission to Applied Technology Diploma (ATD), college credit, or career and technical or vocational certificate programs may be admitted without the standard high school diploma or GED high school equivalency diploma provided the program to which the student is applying does not require the high school diploma or equivalent. However, the College will not be able to award federal financial aid unless the student meets the requirements as set forth under the AA and AS admission criteria above. As with all programs at NWFSC, certificate and ATD students must submit official copies of high school transcripts or GED diploma and, if a transfer student, a copy of transcripts from all previously attended postsecondary institutions.

Baccalaureate Degree Admission Requirements

NWFSC is approved by the State of Florida Board of Education to offer baccalaureate degrees. All Bachelor programs are designed to provide a career ladder for those who have already completed an associate degree (or 60 transferrable credits for the Bachelor's in Education degree). All Bachelor applicants must complete the NWFSC online admission and residency materials to apply to their desired program. Applicants must complete the standard Florida foreign language upper division admission requirement. If a student has not completed two years of the same foreign language in high school or six credits in college, or does not qualify for a waiver, the student may be admitted but will need to complete the foreign language requirement before completing the program.

Bachelor of Applied Science in Project Management Bachelor of Applied Science in Management and Supervision

An applicant for admission to the Bachelor of Applied Science in Project Management or Management and Supervision degree program may be admitted with the following:
Completion of an Associate in Science (A.S.) or an Associate in Applied Science (A.A.S.) degree (with a minimum of 60 semester hours) in a professional/technical field. A.A. degree students may be asked to complete additional credits in a professional area (e.g., accounting, computer science, general business, etc.) in lieu of the additional general education required of the A.S./A.A.S. student.
Completion of all developmental coursework and a minimum of 15 credit hours of transferable general education credit hours.

Bachelor of Science in Nursing

An applicant for admission to the Bachelor of Science in Nursing degree program may be admitted with the following:
Completion of an associate degree nursing program or nursing diploma prior to enrollment.
Completion of all developmental coursework.
Documentation of current Florida RN Licensure. Recent graduates of associate degree nursing programs or Registered Nurses who have recently moved to Florida and have not yet obtained a Florida RN License may apply and may be accepted on a conditional basis for one term or until clinical experiences begin. Conditional status may be removed once the student obtains a current Florida RN License.

Documentation of a grade point average (GPA) of 2.75 or higher in all college credit coursework and a grade of "C" or higher in all Florida Common Course Prerequisites applicable to the RN to BSN degree program. Depending on program capacity, students with less than a 2.75 GPA may be admitted on a provisional basis. However, in all cases, the student must have earned a "C" or higher in all common course prerequisites. Provisional status may be removed if the student earns a GPA of 3.0 or higher for his/her first eight upper division nursing credits at the college. Ideally, prerequisite and general education courses should be completed prior to enrolling in upper division nursing courses; however, all prerequisite and general education courses must be completed by the beginning of the senior year.
Additional pre-enrollment conditions, which include proof of immunizations, CPR verification, drug screen, and background check, must be satisfied prior to registration.

Bachelor of Science in Elementary Education, Bachelor of Science in Middle Grades Mathematics Education, Bachelor of Science in Middle Grades General Science Education

An applicant for admission to the Bachelor of Science in Education degree program may be admitted with the following:
Completion of NWFSC admission and residency materials.
Completion of an Associate in Arts (A.A.) degree from a regionally accredited college or university, or at least 60 semester hours of postsecondary education from a regionally accredited college or university.
Completion of all developmental coursework.
Completion of all general education requirements and lower-division state-mandated common prerequisites with a minimum grade of "C" in each of the prerequisite courses.
Completion of 6 semester hours of coursework with an international or diversity focus, in addition to EDF 2085 -- Introduction to Diversity for Educators.
A minimum cumulative grade point average (GPA) of 2.5 on a 4.0 scale for the general education component of the undergraduate studies or have completed the requirements for a baccalaureate degree with a minimum cumulative grade point average of 2.5 on a 4.0 scale from any approved college or university.
Passing scores on the General Knowledge Test of the Florida Teacher Certification Examination (FTCE).
Agreement to submit to background checks by both the Florida Department of Law Enforcement (FDLE) and the Federal Bureau of Investigation (FBI).

Bachelor of Science in Early Childhood Education, Birth through Four

An applicant for the Bachelor of Science in Early Childhood Education may be admitted with the following:
Completion of NWFSC admission and residency materials.
Completion of state-mandated prerequisites.
Completion of an associate's degree from a regionally accredited institution with a minimum of 60 transferrable semester hours.
Completion of all developmental coursework.
Agreement to submit to fingerprinting as required by Early Childhood facilities.

Second Degree

In recognition that students seeking a second baccalaureate degree have completed a rigorous program of study at a regionally accredited or comparable international institution, some admission and graduation, requirements will be satisfied by virtue of their previous degree. These include Gordon Rule, Foreign Language Entrance Requirement, and General Education. However, this will not preclude prerequisites for the major that happen to be general education courses. NWFSC will also honor the same practice for students who have been awarded a State of Florida Associate of Arts or a baccalaureate degree from a regionally accredited or comparable international institution and are seeking an Associate of Science degree at NWFSC. Students should contact the appropriate department or division office for more information.

Foreign Language Requirement

University or college admission to baccalaureate programs in the State of Florida requires that students demonstrate foreign language competencies. The Florida Department of Education has identified the competencies as successful completion of two sequential credits in high school foreign language, a minimum of 6 credit hours in one foreign language at the college level or an

appropriate score on an approved CLEP examination. Native speakers of another language who can demonstrate proficiency by evidence of a secondary high school transcript may petition for a waiver. Students should contact the appropriate baccalaureate department or division office for more information.

Limited Access Programs

Limited access programs have additional admission requirements and a competitive selection process.

Dental Assisting

The Dental Assisting program is accredited by the Commission on Dental Accreditation. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or 211 East Chicago Avenue, Chicago, IL 60611. The program is a three semester Limited Admission Career and Technical or Vocational program. Applicants must possess a high school diploma or its equivalent, as well as satisfy all other NWFSC admission criteria. Program graduates are eligible to sit for the Dental Assisting National Board examination to receive the Certified Dental Assistant (CDA) credential. Contact Dental Assisting at (850) 729-6444 for additional information.

Emergency Medical Technician (EMT)

The Emergency Medical Technician program is accredited by the Committee on Accreditation for the EMS Professions (CoAEMSP). Emergency Medical Technicians are part of the Emergency Medical Services team. EMTs are trained to provide basic life support and transportation of the sick and injured. The EMT program prepares students to apply for the examination to become a Florida licensed and National Registry Emergency Medical Technician Basic.
The Emergency Medical Technician program is 11 credit hours long and is conducted over one (1) semester. Applicants to this program must have a high school diploma or GED and meet other applicable admission criteria (including fingerprinting, a background check and a drug screen). If the number of qualified applicants to the program exceeds the number of openings, students will be accepted using a combination of application points and a random selection process. Contact the EMS Office at (850) 729-4924 for additional information.

Firefighting

Firefighters are trained to extinguish and control fires in response to situations where property, life, or the environment is in danger. At the scene of an emergency, firefighters perform tasks assigned by their commanding officer. Depending on the situation, they may need to provide medical attention, break through debris, operate fire hoses, or entering a burning building. Firefighters are often first responders to car accidents, hear attack scenes, and other medical emergencies that do not involve fire.
The Firefighting Certificate program is one semester that consists of two classes; Fire Basic I and II. Applicants to this program must have a high school diploma or GED and meet other applicable admission criteria. If the number of qualified applicants to the program exceeds the number of openings, students will be accepted using a combination of application points and a random selection process. Contact the Firefighting Office at (850) 729-4924 for additional information.

AS/RN Nursing

This two-year Nursing program, which is fully approved by the Florida Board of Nursing, leads to an Associate in Science (A.S.) in Nursing degree. Current Florida Licensed Practical Nurses (LPNs) may complete the program in three semesters, not including summer. Graduates of the Nursing program are eligible to apply for licensure by examination to become Registered Nurses (RNs). They are also prepared to continue their education, and can smoothly transition into the RN to BSN program offered at NWFSC. The Associate in Science in Nursing has a once-a-year application/admissions process to begin nursing coursework the following Fall semester. Those who plan to apply to the program may wish to complete specified general education coursework to prepare a more competitive application. Applicants must complete a program application in addition to the college application, must meet or exceed the minimum cumulative GPA requirement, and must pass the Nursing Admission Examination in order to be considered for selection into the program. Students selected for this program must meet matriculation criteria, including fingerprinting, a criminal background check, drug screen, and CPR Certification, as required by clinical facilities. Interested students should review all application materials and selection criteria on the Nursing website. Contact the Nursing Department at (850) 729-6400 for

additional information.

Paramedic

Paramedics are the highest trained and educated pre-hospital provider of emergency medicine. In the Paramedic program, students are provided the highest quality education to prepare to become competent leaders in the high pace work of Emergency Medical Services. The Paramedic program is three semesters beyond the Emergency Medical Technician Basic level and prepares students to apply for the Florida or National Registry Paramedic board examination. The Paramedic Certificate program is a Limited Admission College Credit Certificate. Students admitted to this program must have a high school diploma or GED and meet other applicable admission criteria (including documentation of current Florida Emergency Medical Technician (EMT) Certification, fingerprinting, a background check and a drug screen). If the number of qualified applicants to the program exceeds the number of openings, students will be accepted using a combination of application points and a random selection process. The curriculum for this program forms the core of the Emergency Medical Services Associate in Science degree program. Contact the EMS Office at (850) 729-4924 for additional information.

Radiography

The Radiography Program is a Limited Access Associate in Science degree program. New students are accepted annually for enrollment in the Fall Term. Students admitted to this program must meet specific admission criteria (including a minimum score of 70 in each section of the HESI exam, a background check and drug screen). Applicants must complete a program application in addition to the college application. Graduates of the program will be eligible to sit for the American Registry of Radiologic Technologists (ARRT) certification exam. Contact the Division of Allied Health at (850) 729-6444 or visit our website for additional application requirements and information.

Welding

The Applied Welding Technologies Program is a Limited Access Certificate program. New students are accepted for enrollment annually in the Fall Term. Students admitted to this program must meet specific admission criteria. The NWFSC Welding program provides you the skills, knowledge, and customized training required to be a journey-level professional welder. Students accepted into the program have the opportunity of obtaining NCCER credentials. Each certificate level is acknowledged by the industry as proof of acquired skills in various forms of welding, cutting, base metal preparation, welding inspection, safety, and metallurgy. Interested students should review all application materials and selection criteria in the Welding program guide. Please contact the Welding Office at (850) 729-5221 or visit the welding website for additional information.

Programs with Additional Admission Requirements

Criminal Justice Training Programs

The Law Enforcement Basic and Correctional Officer Basic Career and Technical or Vocational Certificate Programs are certified through the Florida Department of Law Enforcement (FDLE). The college is designated as Florida Criminal Justice Training Center Number 21 and students enrolling in these certificate programs must meet FDLE requirements (including fingerprinting and background check), possess a high school diploma or its equivalent, successfully complete the Florida Basic Abilities Test (FBAT), as well as satisfy all other NWFSC admission standards. Contact the Criminal Justice Program at (850) 729-5378 for additional information.

Emergency Medical Services

The Associate in Science in Emergency Medical Services (EMS) is limited to students who are licensed EMT/Paramedics. Contact the EMS Program Office at (850) 729-4924 for additional information.

Fine and Performing Arts

Some Fine and Performing Arts classes are open only by audition. Contact the Humanities, Fine and Performing Arts Division at (850) 729-5382 for additional information.

Reserve Officers' Training Corps (ROTC)

The U.S. Army Reserve Officers' Training Corps (ROTC) program provides an outstanding opportunity for military leadership training. Students may also begin leadership training at the college level. Participation in the program does not require a commitment to enter the U.S. Army for non-scholarship students. The four courses in the program are transferable to any ROTC program in different branches of the military and participants in the program are able to transfer seamlessly for upper division studies.
To enroll, a student must be physically and morally qualified, a full-time degree-seeking student and a U.S. citizen. For additional information visit ROTC's website or contact Ramsey Ross at (850) 729-5379.

Non-Degree Seeking Students

Many students attend college to upgrade employment skills, for transfer credit, or for personal interest and enjoyment. Non-degree applicants only need to provide a completed Application for Admission and Florida Residency form. Applicants who do not wish to earn a degree or certificate from NWFSC and wish to take college, career and technical or vocational credit courses do not need to provide evidence of prior educational coursework. However, students seeking enrollment in courses with prerequisites or other admissions requirements, or students seeking financial assistance may be required to provide evidence of all prior educational course work. Students will not be permitted to enroll in any college credit English, humanities, mathematics, or Gordon Rule social science course - or any course having an English, mathematics or reading prerequisite - without meeting the State of Florida mandated minimum scores on an approved placement test or showing that they have met the prerequisite or are exempt from placement testing.

Transient Students from Other Institutions

Students who are currently enrolled at another post-secondary institution, wishing to take courses that will be transferred back to their current institution are considered Transient Students. Transient Students are required to submit their home institution's authorization of course selection before registration.

Adult General Education

This program leads to the completion of elementary and secondary studies, including basic reading, writing and mathematics. Adult General Education classes are designed for adults who need to develop skills in reading, writing and arithmetic. It includes other subjects related to gainful employment and college readiness such as obtaining the Florida High School Diploma through GED testing, career preparation and postsecondary transition services. English classes are available for students that have a primary language other than English. Eligibility requirements are as follows:
Applicants must be 16 years old.
Applicants normally must NOT have received a standard high school diploma or passed the General Education Development (GED) Test.
Registration dates and times are the same as those for college credit students. The term fee is $30.00. Most student classroom materials are included in this fee.

International Students

International students should begin the admissions process at least four months prior to the beginning of any college term. International mail delays, transcript verifications, international monetary transfers, consular appointments, travel, housing and advisement/testing requirements must be anticipated many months in advance of enrollment. The desired date for application materials to be received by the College is April 1st for Fall, September 1st for Spring and January 1st for the Summer term. International students seeking college credit on the F-1 or M-1 visa must satisfy all requirements for admission as a regular student

and meet the following requirements:
Fill out the admission form located within the International Student Application Packet. Students can obtain an International Student Application Packet from the Admission area of the NWFSC website.
Transcripts: Official evaluations of secondary school records must be evaluated by an outside source at the student's expense. Students must use one of the agencies sanctioned by the National Association of Credential Evaluation Services, Inc. (NACES). For more Information please refer to the NACES website at www.naces.org. Requests for the acceptance of college/vocational level transfer work must also be evaluated by a NACES sanctioned evaluation service at the student's expense. Recommendations from the evaluation service will be considered in determining what courses may transfer, however, the final determination will be made by the College Registrar in consultation with the Academic Department Chairs/Deans. Academic records will not be returned nor will they be forwarded to another college or agency.
Financial Support: An official statement from the applicant's (or sponsor's) bank or other financial institution or government agency verifying the availability of sufficient funds for tuition, matriculation, books, living expenses, etc., must be submitted. (Approximately: $22,000 for the academic year.) With the exception of athletic scholarships, financial assistance for international students is not available from Northwest Florida State College. An international student must be able to finance all school expenses and transportation. Before obtaining a visa, the U.S. government will require a copy of the financial certification given to Northwest Florida State College. Employment is not permitted unless permission to work is given by INS. Remember, fees are subject to change without notice.
Language Proficiency: Test of English as a Foreign Language (TOEFL) results are required of applicants for whom English is not the primary language. The minimum required score is 173 for the computer-based TOEFL and 61 on the Internet-based TOEFL. Students, who have evidence of English proficiency in lieu of a passing TOEFL score, may petition the Admissions Committee for consideration. NWFSC does NOT give the TOEFL test.
Health Information: Health insurance with hospitalization coverage and a repatriation clause is required. This insurance should be obtained prior to the international student's first registration and must be maintained while attending NWFSC.
An official notice of acceptance or denial will be sent to applicants. Applicants should not make definite plans to arrive in the U.S. until he/she has been notified of acceptance to the college. Being in the U.S. will not affect the admission decision. Completing the application process does not guarantee acceptance to Northwest Florida State College. When all admissions documents, academic credentials, and test results are on file and meet minimum standards for the college, an acceptance letter will be sent along with the U.S. Immigration Form I-20. The Form I-20 is the document required to obtain the Student (F-1 or M-1) Visa. Final approval for visa is determined by the American Embassy or consulate representative and not the college. If the student cannot enroll for the semester written in the notice of acceptance and wishes to enroll in a different semester, International Student Admissions must be informed immediately.
NWFSC does NOT provide on campus housing; therefore, international students must arrange housing in the community. There is limited public transportation service in the area; students must provide their own transportation to and from the college. The U. S. Citizenship and Immigration Service (USCIS) regulations require that foreign students enroll in a full-time course of study during two of the yearly terms. USCIS regulations also restrict work opportunities for such students. International students should consult with the International Student Advisor and present his/her student visa and evidence of health insurance before registration.

Collegiate High School

NWFSC operates an innovative charter high school on the Niceville Campus. This school is a public school of the Okaloosa County School District governed by the NWFSC Board of Trustees. Through this unique high school/college program, students may earn both a high school diploma and a two-year college degree at the same time through full-time study at NWFSC. The Collegiate High School is free of charge and operates under guidelines established by Florida statute. Admission is open to any public, private or home school student who is of high school age and who has earned credit for placement in grades 10, 11, or 12.
Collegiate High School students enroll in honors high school classes and college courses and may earn both high school and college credit for these classes. Students follow an approved program of study designed by the student, his/her parents, and an educational advisor. The program of study meets the Florida statutory requirements for both a high school diploma and an associate degree. A limited pre-collegiate track assists students who are not completely prepared to directly enter a full program of college-level classes. For more information, call the Collegiate School Office at (850) 729-4949 or visit www.nwfcollegiatehigh.org.

Simultaneous Enrollment for High School Students

Simultaneous enrollment programs provide a means for educational acceleration for academically superior high school students. These include the following admission categories:

Dual Enrollment provides the opportunity for qualified high school students from Okaloosa and Walton counties to enroll in NWFSC courses while simultaneously enrolled in high school. Students receive both high school and college credit for these courses. Dual Enrollment students are exempt from tuition, matriculation, and laboratory fees. Public school students have books provided by the student's high school through the College's Barnes and Noble bookstore. Books must be returned by the end of the semester. Private and home school students must purchase their own college textbooks. Eligibility criteria and enrollment procedures comply with Florida law and regulations and are defined in the appropriate District Articulation Agreement. Prospective students and their parents should consult the Dual Enrollment Office at (850) 729-5205 or visit the website for the most current admission information and procedures, and a list of approved college courses.

Concurrent Enrollment provides the opportunity for qualified high school students from Okaloosa and Walton counties to enroll in NWFSC courses while simultaneously enrolled in high school. Unlike Dual Enrollment, college credits earned through concurrent enrollment do not apply to the student's high school requirements. Students concurrently enrolled pay standard college tuition, matriculation, laboratory and textbook fees.

Please note the terms and eligibility criteria of these high school enrollment programs are defined by state regulation, college policies and procedures and current articulation agreements. It may vary between Okaloosa and Walton counties, private and home school students. As such, they are subject to change.

Students must meet the admission requirements in order to enroll in either the Dual or Concurrent Enrollment programs. Student success in these programs is dependent upon both academic readiness and social maturity. Prospective students should consult the Dual Enrollment/Early College Office at (850) 729-5205 for admission information and procedures or visit the website.

Florida Residency for Tuition Purposes

Students are classified as Florida residents, Border State residents or as non-Florida residents for the purpose of fee assessment at the time of initial registration. Criteria for determining residency status are detailed in Florida Statutes and the administrative rules of the State Board of Education. A Florida resident for tuition purposes is a person who has (or a dependent person whose parent or legal guardian has) established and maintained legal residence in Florida for the 12 months immediately preceding the first day of classes of the term for which enrollment is requested. Residence in Florida must be for the purpose of establishing a permanent home and not merely incident to enrollment at an institution of higher education.

To qualify as a Florida resident for tuition purposes you must be a U.S. citizen, lawful permanent resident, or certain individuals granted indefinite stay by the U.S. Citizenship and Immigration Service. Living in Florida for the express purposes of attending school does NOT constitute legal residence. Students who depend on out-of-state parents for support are presumed to be legal residents of the same state as their parents unless one parent has established legal residence in Florida for more than 12 months. Two (2) documents supporting the establishment of legal residence must be dated, issued, or filed 12 months before the first day of classes of the term for which Florida residency is sought. Students cannot hold out-of-state driver's licenses, vehicle registrations, etc. and be eligible for Florida residency.

Students may review the residency guidelines at on the NWFSC website, at www.flvc.org, or any NWFSC location. Providing false residency information is a violation of Florida law and could result in disciplinary action being initiated. The college will correct the fees assessed those students who misrepresent their place of legal residence. An invoice will be issued for the increase in tuition.

Dependent

Students who are claimed on their parent's tax return as a dependent for the previous calendar year shall be considered to be dependent. In addition, a student, whether or not living with his/her parent, who is eligible to be claimed by his/her parent as a dependent under the federal income tax code shall be classified as dependent. In general, the IRS requires that a "qualifying child" or "dependent" meet six (6) tests:

The child must be your son, daughter, or stepchild.

The child must be: (a) under age 19 at end of the year; (b) under age 24 at end of the year AND a full-time student; or (c) any age if permanently disabled.

The child must have lived with you for more than half of the year subject to IRS exceptions.

The child must have NOT provided more than half of his/her own support for the year.

The child is NOT filing a joint return for the year (unless that joint return is filed only as a claim for refund).

If the child meets the rules to be a qualifying child of more than one person, you must be the person entitled to claim the child as a qualifying child.

Independent

A student who meets any one of the following criteria shall be classified as an independent student for the determination of residency for tuition purposes. Evidence that the student meets one of these criteria will be requested by the higher education institution.
The student is 24 years of age or older by the first day of classes of the term for which residency status is sought at a Florida institution.
The student is married.
The student has children who receive more than half of their support from the student.
The student has other dependents that live with and receive more than half of their support from the student.
The student is a veteran of the U.S. Armed Forces or is currently serving on active duty in the U.S. Armed Forces for purposes other than training.
Both of the student's parents are deceased or the student is or was (until age 18) a ward/dependent of the court or in foster care.
The student is determined an unaccompanied homeless by a school district homeless liaison, emergency shelter or transitional housing program.
Documentation is provided showing the student provides more than 50% of his/her support for the year.

Exceptions/Qualifications

Other persons not meeting the 12 month legal residence requirement may be classified as Florida residents for tuition purposes if they fall within one of the limited special categories authorized by the Florida Legislature [Florida Statute S.1009.21(11)]. These exceptions are listed below.

Documentation in support of these exceptions is required:

Active duty service members of the U.S. and active drilling members of the Florida National Guard stationed in Florida (spouse and dependent children included).
Active duty service members of the U.S. not stationed in Florida but whose legal state of residence is Florida (spouse and dependent children included).
Full-time instructional and administrative personnel employed by the State public schools system, college system, or university system (spouse and dependent children included).
A dependent child who has lived with an adult relative (who is not a parent or legal guardian) for at least five years.
Persons who were enrolled as Florida residents at a state institution of higher learning but who abandon Florida residency for less than one year.
Latin American/Caribbean Scholars.
U.S. citizens living on the Isthmus of Panama who have completed 12 consecutive months of college-level coursework at the FSU Panama Canal Branch (spouse and dependent children included).
Full-time employees of state-agencies or political subdivisions of the State when the student fees are paid by the agency or subdivision for the purpose of job-related law enforcement or corrections training.
Qualified beneficiaries under the Florida Pre-Paid Postsecondary Expense Program as provided in Florida statute.
A dependent child whose parents are divorced, separated, or otherwise living apart, will be considered a resident for tuition purposes if either parent is a legal resident of Florida, regardless of which parent claims the minor for tax purposes.
The law allows non-U.S. citizens such as lawful permanent residents, temporary permanent residents, asylees, parolees, and refugees who have applied for and been approved for such status and who otherwise meet the 12 month legal residence requirements, to be eligible to establish Florida residency for tuition purposes. For a list of non-immigrant categories (visa categories and INS classifications) eligible to establish Florida residency for tuition purposes contact the Registrar/Admissions Office or consult the Residency Guidelines under Apply on www.flvc.org.

Reclassification

Students classified as out-of-state residents for tuition purposes, may re-apply for in-state residency at such time as they have completed the requirements for establishing legal Florida residency. Students can reclassify by submitting an updated Residency Classification form and supporting documentation to the Admissions Office. A minimum of three (3) documents that support clear and convincing evidence of Florida legal resident for the previous twelve (12) consecutive months will be required.
Students who become eligible for in-state tuition in the middle of a term shall have their record adjusted to reflect the in-state tuition

rate effective the next term of enrollment. Tuition will not be adjusted for the current term.

Appeals

In cases where the applicant expresses a desire to appeal the residency classification the matter will be referred to the Residency Appeal Committee in accordance with the college's official appeals process. The Residency Committee will render to the applicant the final residency determination and the reasons for the determination in writing.

Recent Florida High School Graduates

Effective July 1, 2014, for the Fall 2014 term and thereafter, House Bill 851 amended section (s.) 1009.26, Florida Statutes (F.S.), fee waivers, to authorize an out-of-state fee waiver for students who have attended a Florida high school for 3 consecutive years immediately prior to graduating from a Florida high school. These students must have applied to Northwest Florida State College within 24 months after their high school graduation. In order to be eligible, students will need submit an official HS transcript showing the Florida high school attendance. This waiver can be applied to recent Florida high school graduates regardless of their immigration status to include DACA and undocumented students. Students who do not qualify for in-state residency are encouraged to contact the Admissions Office to explore their options and apply for the waiver; 850-729-4901 or admissions@nwfsc.edu.

Out of State Tuition Waiver for Veterans

Effective July 1, 2014, for the Fall 2014 term and thereafter, House Bill 7015 created the Congressman C.W. Bill Young Veteran Tuition Waiver Program, authorizing an out-of-state fee waiver for honorably discharged veterans of the United States (U.S.) Armed Forces, U.S. Reserve Forces or the National Guard who physically reside in Florida. This waiver will be applicable for 110 percent of the required credit hours of the degree or certificate program for which the student is enrolled in. A new waiver application is required each academic year and is not applicable to spouses or dependents of a veteran. Veteran students are requested to seek in-state residency for tuition purposes by the end of their third semester at Northwest Florida State College.
Northwest Florida State College shall waive the out-of-state tuition for veteran students who meet the following conditions:
Received an honorable discharge as a member of the U.S. Armed Forces, U.S. Reserve Forces or the National Guard.
Physically reside in the state while enrolled at the institution (this will be verified each semester).
Proof of honorable discharge confirmed on veteran's DD214 (member copy 4).
Proof of physical residence in the state may include but is not limited to submission of an annual lease and/or a FL Driver's License reflecting the veteran's name.
In order to be eligible for the waiver, students will need to fill out the Non-Resident Tuition Waiver for Veterans. The waiver is available online and at all of our seven locations.

Alabama Residency

The Florida Legislature allows the option of providing Alabama residents a different tuition assessment for postsecondary classes. At NWFSC the Alabama Border State Fee, at a rate of an additional $1.00 per credit hour (or $1.00 per term for Adult Basic Education students) to the current in-state tuition rate, will be assessed for all eligible Alabama residents.
To be eligible for the Alabama Border State Fee the student must complete the Alabama Residency form and provide verification of an Alabama driver's license, Alabama vehicle registration, or Alabama voter's registration card.

portion of the catalog. The fees listed below are for the 2014-2015 academic year.
Fees Subject to Change by Action of the Florida Legislature and the NWFSC Board of Trustees without notice.

Instate Tuition per credit hour	Out-of-State Tuition per credit hour	Border State (Alabama) Tuition per credit hour
Baccalaureate (College Credit)	$122.59	$450.86
$123.59	Advanced & Professional (College Credit)	$104.12

$381.12	$105.12	Postsecondary Voc. (College Credit)
$104.12	$381.12	$105.12
Developmental	$104.12	$381.12
$105.12	Postsecondary Adult Vocational (Voc. Credit)	$86.10
$344.10	$87.10	Adult Basic & Adult Secondary
$30.00	$30.00	$30.00

Laboratory and Special Tuition Fees exist to cover unique costs related to a given course. The amount is determined course-by-course and is based on the instructional costs for each. A fee schedule is on file in the Business Office and is printed in the class schedule each session.

Full Cost of Instruction for Third Attempt

College credit and developmental course enrollments beginning with the third attempt in the same course pay the full cost of instruction (based on action by the Florida Legislature).

RaiderCards

The RaiderCard is a student identification card that is issued to college credit students after tuition fees are paid. There is a $15 fee per term.
The RaiderCard allows students to deposit money on the card to be used on campus for photocopying and food services and bookstore purchases. It is also used to provide access at the College Learning Resource center and to provide free admission to NWFSC athletic events and certain cultural events offered by the college. RaiderCards are re-activated each time a student re-enrolls. Lost or damaged cards may be replaced for a $15 charge.

Testing Fees*

Admission Assessment Exam for Health Programs (HESI)

Required of Radiography and RN Students

$40.00

College Level Exam Program (CLEP)

Exam Fee $80.00/Administration Fee $20.00

$100.00

Course Challenge Exam

$100.00

DSST Exams (formerly DANTES)

Exam Fee $80.00/Administration Fee $20.00

$100.00

FBAT Test

$35.00

GED Test

Complete Battery

$128.00

Individual Modules

$32.00

PERT

Non-NWFSC students or repeat attempts by NWFSC students (There is no charge for the first attempt for students enrolling at NWFSC.)

$10.00

Proctoring (Other Schools)

$30.00

TABE (Non-NWFSC Students)

$20.00

Microsoft Office Specialist Certifications (MOS)

(Non-NWFSC Students) Exam Fee per Section

$62.80

Certiport Internet and Computing Core Certification (IC3)

(Non-NWFSC Students) Exam Fee per Section

$22.18

* Additional registration fees may apply. See

ACT/SAT Testing
Registerblast
Proctor U
Professional Testing/Certification/GED

Testing Center Locations
Testing Center Hours and Contact Info
Testing Services Offered and Fees

Testing Center Locations

Northwest Florida State College offers six testing locations:
Niceville Campus
Robert L. F. Sikes Education Center (Crestview)
Fort Walton Beach Campus
Hurlburt Field Site
DeFuniak Springs Chautauqua Center
South Walton Center.

Testing Services Offered and Associated Fees

PERT - For placement into English and Math courses, current and prospective NWFSC students will need to complete the Postsecondary Education Readiness Test (PERT). This assessment is free for the first attempt. Additional attempts will incur a $10.00 fee. Students must wait 7 days between each testing attempt. There is a $30.00 test fee for all non-NWFSC test candidates. The PERT test is offered at the six locations listed above.
Proctored Exams - Make-up exams for current NWFSC students are offered free of charge. Tests are offered at the six locations listed above. It is the student's responsibility to ensure the test is received at the test location.
Proctored Exams for Non-NWFSC Students - Students currently enrolled in an institution other than NWFSC will be charged a $30.00 testing fee. Tests are offered at the six locations listed above. It is the student's responsibility to ensure the testing location has received the exam from the home institution.
CLEP (College Level Examination Program) - A student may sit for a CLEP exam to prove competency in a subject area, therefore earning credit without registering for a course. It is the student's responsibility to ensure the receiving institution accepts the CLEP credit. CLEP Exams must be registered for and paid at clep.collegeboard.org. There is an $80.00 exam fee plus a $20.00 Administration Fee to be paid to the NWFSC Testing Center. This is a free exam for military and specific military affiliations. Please see the CLEP website for additional information. Test is offered at Niceville and Hurlburt Field and can only be taken once every six months.
DSST, formerly DANTES (Defense Activity for Non-Traditional Education Support) - A student may sit for the DSST to prove competency in a subject area, therefore earning credit without registering for a course. The DSST must be registered for and paid at getcollegecredit.com. There is an $80.00 exam fee plus a $20.00 Administration Fee to be paid to the testing center. This is a free exam for military and specific military affiliations. Please see DSST website for additional information. Test is offered at Niceville and Hurlburt Field and can only be taken once every six months.
FBAT (Florida Criminal Justice Basic Abilities Test) - This assessment is used to measure an applicant's likelihood of being successful in a Law Enforcement program. Aptitudes for written expression, oral comprehension, selective attention, visualization, inductive, and deductive reasoning are determined. Candidates may complete this assessment up to three times for any program in a 12-month period. The testing fee is $35.00. Test is offered at Niceville Only.
HESI (Health and Environmental Sciences Institute) - The HESI is a computerized exam that includes up to seven sections. Admission into the NWFSC Radiography and Associates of Science in Nursing programs requires the completion of the Math, Reading Comprehension, Vocabulary and General Knowledge, Grammar, and Anatomy sections. Candidates are allowed two attempts during any one application cycle, with 30 days between attempts. Candidates for another institution will be required to verify the required sections of the HESI with that institution. The testing fee is $40.00. Test is offered at Niceville Only.
TABE (Test of Adult Basic Education) - Students seeking admission into the Dental, Fire, and Welding programs at NWFSC are required to complete TABE and will be charged a $30.00 for for this assessment. TABE measures a combination of skills in Reading, Language, Language Mechanics, Spelling, Vocabulary, Writing, Applied Math, and Math Computation. Combinations will vary based on program admission requirements. Those completing TABE as an exit assessment will not be charged an additional fee. All other programs and test candidates will be charged $30.00 per attempt. Candidates may retake TABE immediately after first attempt. However, after two attempts, candidates must wait 30 days prior to retesting. Test is offered at Niceville only.

Registerblast

If testing at the Niceville Campus, students should visit registerblast.com/nwfsc/exam to register for exams. This link is also found on the Testing Center webpage. RegisterBlast will allow test candidates to schedule and pay for exams. A $3.50 convenience fee is applied to all registrations requiring payment. For all other locations, appointments made via phone are necessary.

Proctor U

NWFSC requires that online courses include a proctored element. Students have three options for completing the proctored element: (1) face to face on the Niceville campus, (2) face to face at a remote proctoring site, or (3) online using ProctorU. Distance Learning students are provided the opportunity to test through Proctor U. Students should log on to http://www.proctoru.com/howitworks.php to register and create an appointment. This service requires a web cam and microphone and the test candidate will be monitored through the computer screen. Tests should be scheduled at least 3 days in advance and there is an associated proctoring fee, see the Testing Center webpage for details.

Professional Testing/Certification and GED Services

The Niceville Campus houses a certified Prometric and Pearson Vue testing center in which to complete professional certifications and the GED.
Prometric (Information Technology Certifications) - Designed for software and technology professionals, exams offered at NWFSC include: Microsoft Certified Systems Engineer (MCSE) and Microsoft Certified Systems Administrator (MCSA), UNIX, LINUX, A+, Network +, CISCO Certified Network Associate (CCNA), Certified Novell Administrator (CNA) and Certified Novell Engineer (CNE). For a comprehensive list, examinees should visit www.prometric.com.
Pearson VUE - Delivers certification and licensure tests through NWFSC's test center in the areas of Academic/Admissions, Construction Trades, UST & Inspectors, Driving Test, Employment/HR/Management Safety, Financial Services, Health/Medicine/Nursing/Pharmacy, Information Technology, Insurance, Legal Services, Real Estate/Appraisers/Mortgage and Loan, and State Regulated Certifications and Li censures. This is not a comprehensive list and examinees should visit www.pearsonvue.com.
Certiport - NWFSC offers the official Microsoft Office Specialist certification for desktop productivity in the following areas: Word, Excel, Outlook, Power Point, Access, and Project. The IC3 training and certification program covers a broad range of computing knowledge and skills that proves competency in: Computing Fundamentals, Key Applications, and Living Online. For additional information, visit www.certiport.com.

ACT/SAT Testing

The ACT and SAT are offered at the Niceville Campus on dates specified on the respective websites.

Testing Center Hours and Contact Information

Generally, testing locations are open Monday - Friday. For current testing hours, contact information or questions, go to the Testing Center webpage.

for additional information.

Other Fees and Charges

Continuing Workforce Education	At Full Cost of Instruction
Library Fines	Daily Rate $ 0.20
Lost Book Charge	Actual cost of replacement (if available)
or $25.00 plus $5.00 processing fee	Recreational & Leisure Courses
At Full Cost of Instruction	Reinstatement Fee*
$25.00	Returned Check Fee*
$25.00	Special Service Charges
At Cost	Student Access Fee**
Per semester fee	$15.00
Replacement fee	$15.00
Transcript Fee (per transcript)	$5.00

*Students who are administratively withdrawn from class due to late payment or non-payment of fees, loans or deferments or a dishonored check will be charged a $25.00 reinstatement fee. ** Student Access Fee is required of all college credit students.

Parking Fines

All students, staff and faculty must register their vehicles with the College and display the parking decal when on campus. Visitors must park in designated visitor sections or obtain a visitors temporary parking permit from the Welcome Center in the Student Services Center or Student Life in the Activities Center. Parking regulation details are in the Student Handbook section of the catalog. Violating NWFSC's parking regulations may result in parking fines being assessed, the vehicle being towed, or "booted" at the owner's expense.

No Decal Fee	$25.00
Parking Ticket	$25.00
Tire Boot Removal Fee	$25.00 plus parking ticket of $25.00
Towing and Storage	Actual cost

Fines and Debts to the College

All unpaid debts, including Federal Guaranteed Student Loans, with NWFSC will result in fines being assessed or the withholding of transcripts, diplomas, certificates, and other official documents. Students will be prohibited from enrolling until all debts are paid in full. Students may be subject to liabilities for collection costs including attorney's fees.

Cost Summary

The range of basic charges for a typical full-time college-credit tuition non-baccalaureate student, per year, registered for 15 credit hours per term for two terms are noted below. Lab fees, food, housing, and travel costs depend upon the individual student's circumstances.

Florida Resident

Fees

$3,304.00

Books and Supplies

$1,440.00

$4,744.00

Alabama Border-State Resident

Fees

$3,334.00

Books and Supplies

$1,440.00

$4,774.00

Non-Florida Resident

Fees

$11,614.00

Books and Supplies

$1,440.00

$13,054.00

Student Tuition Payment Plan

A student tuition payment plan is available on the college website through NelNet Tuition Installment Program. NWFSC will hold academic transcripts and refuse re-enrollment to any student who is delinquent on their agreement from any preceding semester until all amounts owed on prior agreements are paid or the student is released by NelNet. Please refer to the NWFSC website for additional information or to apply for this service.

Military Assistance

Active-duty military personnel who enroll in college-credit programs through base education offices may be eligible for financial assistance. The college has Military Assistance Agreements in effect with both Eglin Air Force Base and Hurlburt Field. Contact the base education office for details.
The Veterans Success Center, located in the Student Services Center on the Niceville campus, can assist veterans with educational goals and resources.

Refund Policy

A student can receive a full 100% refund up to and during the schedule adjustment period for the term. Full refunds after the schedule adjustment period may be requested by completing a Refund Request Form. Only the refund requests citing the following reasons will be approved: Serious illness, military orders, circumstances beyond the student's control or administrative college error. Refund requests must be submitted before the midterm and may only apply to the current semester. The Business Office will notify the student of the request disposition within 15 business days of the date of receipt of the request. Refund checks will only be issued for $1.00 or more. Refunds less than $1.00 will be paid in cash at the Business Office on the Niceville Campus.
Full financial credit will be granted for cancelled classes. Students can choose to enroll in other classes to which the fees can be applied. A refund will be processed automatically if replacement classes are not selected.

Testing Fees Refund Policy

Individuals who have paid the registration fees to take the CLEP or TABE and who are unable to test at the scheduled date and time, may request to reschedule the test or may request a full refund. The rescheduled test date must occur within thirty (30) days of the first scheduled test date. Individuals who are unable to reschedule a test may request a refund within thirty (30) days after the scheduled test date. Requests for full testing fee refunds must be submitted in writing using the Refund Request form.

Dishonored Check Policy

Checks returned by the bank will be processed as follows:
The student will be notified by certified mail that their check was dishonored by the bank. A $25 return check charge will be applied to the student's account.
The student will have seven (7) calendar days to pay for the check and the return check charge. Payment must be in the form of cash or certified funds. If any portion of the dishonored check funds includes payment of tuition and fees, failure to make the payment will result in cancellation of enrollment.
Reinstatement after enrollment cancellation will be considered only after full payment which will include an additional $25 reinstatement fee.

The student's record at NWFSC will reflect the obligation as an outstanding debt which will result in the withholding of transcripts, diplomas, certificates, and other official documents. Students will also be prohibited from enrolling until all debts are paid in full. Students who have written two or more checks with insufficient funds will be subject to disciplinary action even though their checks have been paid. The college will also suspend their check writing privileges and may report to other colleges and credit reporting agencies.
The college will forward unpaid dishonored checks, returned check charge, and related information about the student to a collection agency within 35 days.

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Northwest Florida State College serves all eligible persons without regard to age, disability, marital status, national origin, race, religion, or sex. By applying for admission to NWFSC, the student agrees upon enrollment to abide by college policies and regulations published in its policy statements, current catalog, official manuals, and publications. Students are expected to be committed to the common good of the college and to comply with local, state and federal law.
The college environment is an open intellectual forum where varying opinions may be freely expressed and fairly debated. Each member of the college is expected to participate seriously and purposefully in college life. While the freedom to express ideas and beliefs will be respected, conduct and behavior that result in the defacement of property, intimidation of others, or the disruption of any college activity will not be tolerated or permitted and will be subject to disciplinary action. Instructors explain classroom requirements, and students are expected to assume full responsibility for their own actions.

NWFSC Website

The Northwest Florida State College website is located at www.nwfsc.edu. The website provides access to College information such as admission, registration, financial aid, bookstore, student life, academic resources, instructor websites and more.

RaiderNet

RaiderNet is the student on-line information and registration system. RaiderNet provides access to update contact information, register for classes, view grades, obtain unofficial transcripts, enrollment verification, degree audit, and financial aid status. RaiderNet utilizes a personal Identification number (PIN). To access RaiderNet from the college's homepage, click the quick link on www.nwfsc.edu. For questions concerning access to RaiderNet, call (850) 729-6922.

Student Email Accounts

Students are assigned an NWFSC student email account during the application for admission process. The student email address serves as the official method of communication to the student from the college. This email service is reserved for college business. For more information and to access student email, go to www.nwfsc.edu. Send questions concerning access to student email to helpdesk@nwfsc.edu or call (850) 729-5396.

Attendance

Regular and prompt attendance in all classes is expected. All instructors are free to establish attendance policies for their classes. It is the student's responsibility to notify the instructor and make arrangements to complete any missed work. (Make-up work is offered solely at the discretion of the instructor.) Excessive absences can affect the success of course completion and financial aid funding. This general policy applies to the student absent from class traveling as a member of a college group, or club or for personal reasons.

Religious Observance by Students

The College shall accommodate recognized religious observances of students under existing State directives. Provision shall be made for students to complete the following activities when their religious observances interfere with:
Admission and registration;
Attendance in class, class activities, examinations, and official ceremonies, and
Class work assignments.
Students wishing to participate in any recognized religious holiday observances are to let the instructor know, in advance, of their absence. Students will be excused for such absences without penalty. Students are responsible for any material covered during their excused absence. A reasonable amount of time will be allowed to complete make up assignments. Students who believe they have been denied an education benefit because of their religious belief or practice may seek redress as outlined in the Student Grievance Procedures.

Children on Campus

NWFSC values family life and has worked to develop policies that are supportive of families. However, it is the policy of NWFSC that students and visitors should not use the College in lieu of a childcare provider. Accordingly, minor children of employees, students, or visitors may be on campus only under the special circumstances outlined below. Contact the Dean of Students for any questions or concerns.
Minor children are permitted on campus when the purpose of their visit is to participate in activities, classes, or events specifically scheduled for their benefit (e.g. Kids on Campus, Children's Fine Arts Series, Child Development and Education Center).
Minor children are permitted on campus when with a parent or responsible adult who is conducting routine business at the college.
Minor children are not permitted in labs, shops, construction/repair sites, classrooms, offices, labs, or other areas where potential hazards exist, unless enrolled in classes or activities scheduled at the site.
In an emergency or other compelling situation, students or staff may bring children to class or the workplace on an incidental, individual basis, provided advance approval is obtained from the appropriate administrator. In such cases, the children must be directly supervised by the parent/adult and must not disrupt or distract the flow of college work, services or instruction.
Minor children on campus must be directly supervised at all times.

Service Animals

Service animals are permitted on NWFSC campuses. Service animals are defined by the American Disabilities Act (ADA) as "dogs that are individually trained to do work or perform tasks for people with disabilities." Please see the ADA Requirements and Florida Statute 413.081 regarding services animals. Therapeutic animals are not considered to be service animals and are not permitted on NWFSC campuses.
NWFSC requests that students who utilize or train a service animal on any of the College's campuses notify the Office of Disability Support Services so that all appropriate and available services may be allocated to the student. The service animal must be under control of the handler at all times. The handler is responsible for the care, cleanup of all animal waste, and for ensuring that the animal is not disruptive to any program, service, learning environment, or college activity. A service animal may be removed by state, local government, campus authorities, or the handler may be requested to remove the animal from college premises, if it is disruptive, aggressive, unhygienic, or behaving in ways outside the duties of a service animal (wandering, barking, etc.)

Mental Health Counseling Services

Northwest Florida State College has teamed up with local agencies to provide mental health counseling services for NWFSC students who need assistance coping with the challenges of college life, as well as, academic performance. Referrals are handled through the Dean of Students, located in the Student Services Center at the Niceville campus. Licensed Counselors are onsite weekly.
Pattison Professional Counseling and Mediation Center helps students overcome personal challenges. Refer to www.ppccfl.com or (850) 863-2873 for additional information.
Florida Panhandle 211 Get Connected, Get Answers COPE Center is a referral hotline staffed with trained certified resource specialists to offer guidance and support to citizens of Walton County. By dialing 211 from any phone, people will be linked to services for clothing, food, financial assistance, employment, dentistry, healthcare providers, transportation, tutoring, child care, home health care, counseling, drug rehabilitation, and evaluations etc. Call (850) 892-8045 for additional information.

AIDS and HIV

Northwest Florida State College Policy #GP12.00 and FS 1006.68 states that students with AIDS or who are HIV positive are not denied admission to the college. Students are encouraged to confidentiality disclose to the Disability Support Services if needed to obtain accommodations in classrooms such as lab classes. The Dean of Students has a referral system for regional health services for assistance.

Substance Abuse

NWFSC Drug-Free Work Place policy #HR 4.00 states that Northwest Florida State College is alcohol and drug free in accordance with Public Law 100-690, The Anti-Drug Abuse Act of 1988. The unlawful manufacture, distribution, dispensation, possession, or use of alcohol or a controlled substance is prohibited in and on NWFSC owned and controlled property except for events specifically approved to include alcohol. Students in violation will be subject to disciplinary action as stated in the Student Code of Conduct published in the Student Handbook/College Catalog and may be subject to criminal prosecution.

Tobacco Use

NWFSC Smoking and Tobacco policy #HR 23.00 states:
"Smoking (including E-cigarettes) and tobacco use are prohibited in all College owned or leased buildings including common areas and in College vehicles. Common area means any hallway, corridor, aisle, water fountain area, restroom, stairwell, entryway, or breezeway. Smoking and tobacco, use including all tobacco products, are prohibited within 30 feet of entryways.
A smoking area may not be designated in any College owned or leased building or common areas".

Parking and Traffic Regulations

Vehicle operators are responsible for complying with the College's parking and traffic regulations whenever they bring a vehicle on campus.

Parking Decals

All college students and employees must display a parking decal on their vehicle when parking in designated student, faculty and staff parking areas. Parking decals are available at the time of registration and throughout the year at all NWFSC locations.
A decal is to be acquired the first time vehicle is used on campus.
The operator may acquire a unique decal for each vehicle.
Decals have no expiration date. The decal is valid as long as decal numbers are readable.
Decals are free of charge.
Decals should be removed upon the discarding or sale of vehicle.
Temporary decals are required for students, faculty and staff when using an alternate vehicle that does not have a parking decal.
Temporary decal must be placed on the dashboard of the vehicle.
All parking areas are color coded to designated authorized use:

White Lines = Student Parking Yellow Lines = Faculty/Staff Parking Blue Lines = Disabled Parking Green Lines = Visitors
Vehicles must be parked in designated areas or a ticket will be issued. The College cannot assume responsibility for vehicle contents while on NWFSC premises. Parking is not allowed on campus between the hours of 11:00 p.m. and 6:00 a.m. except during scheduled college events or by special authorization from the College.
All vehicles parked in designated disabled spaces must display an official, state-issued disabled tag on the rear view mirror. Vehicles that are not properly identified as authorized to park in such spaces will be ticketed and/or towed at the owner's expense.
Driving on campus is a privilege. The College has the right to ban a student from operating a vehicle on campus.

Parking Violations

Parking across parking lines
Parking in a no parking zone
Parking in area not designated for parking
Parking on walks or grounds
Parking in a designated space
Parking in a handicapped space +
Double parking +
Obstructing drive, fire hydrant, or fire lane*
Obstructing other vehicles*
No Decal
Parking violators will receive a $25.00 fine per citation. Decal owner is responsible for violations committed by other persons while using the owner's vehicle. If the violation is "No Decal," fine will be assessed to the owner of the vehicle.
* Indicates a Parking Boot Infraction. A $25.00 fine plus a $25.00 boot removal fee will be assessed to violator. Both fees must be paid prior to boot removal.
+ Indicates a Tow Away Infraction. Towing costs will be negotiated with the towing company to determine the amount owed.

The Student Traffic Court

The Student Traffic Court convenes, as needed, to adjudicate written appeals of parking violations for students. After deliberation, adjudication results are forwarded to the Dean of Students with the court's recommendation that the citation be either upheld or overturned. Appeal forms are available in Student Life in the Activities Center on the Niceville Campus.

Posting, Circulating and Exhibiting Printed and Filmed Information

Students are expected to use mature judgment and a sense of discretion in their selection, publication, display, presentation and circulation of any printed or filmed materials at any college location, and to realize that they must accept responsibility individually and collectively for the consequences of their choices on these matters. The appearance of the college name, seal or insignia on any material which is not published by the college is not authorized and does not imply college approval or endorsement of the contents.

Notices

Notices may be posted by students and recognized student organizations on appropriate bulletin boards. Notices and posters are not to be taped, glued, or pasted on painted or finished surfaces. All such posting must be cleared in advance by the Director of Student Life at the Niceville Campus. College Center Directors may approve notices at their respective locations. The general distribution of notices is prohibited by anyone other than instructional and staff personnel in the performance of their duties or by recognized student organizations to advertise an approved event.

Student Publications

Student publications (which may include video media newscasts) are intended to foster an atmosphere of free and responsible discussion and intellectual exploration. They are a means of bringing student concerns to the attention of faculty and staff

members, and of formulating student opinion on various issues at the college and in the surrounding community.
The editorial freedom of student editors entails the corollary responsibility to be governed by the canons of responsible journalism, such as the avoidance of libel, indecency, undocumented allegations, attacks on personal integrity, and the techniques of harassment and innuendo.
Student publications shall contain a statement to the effect that the opinions expressed therein are not necessarily those of the faculty, staff or student body of the college.

Student Fundraising

The college does not approve fundraising activities by students and/or student organizations unless the specific purpose of the activity is to support institutional scholarships. Students/Student Organizations must have the approval of the Dean of Students for scholarship fundraising at least one month prior to the activity's scheduled date. The Dean of Students may also approve special fundraising projects, such as those supporting humanitarian/charitable efforts, on an individual project basis; approval must be obtained at least one month in advance of the activity.

Policy Formulation

A student who wishes to suggest a change in any policy of the college should submit a written recommendation to the Student Senate for evaluation. If favorably received by the Senate, the proposal shall be submitted by the Student Senate to the appropriate standing committee/subcommittee of the College for consideration. Students serve on various College committees such as the Budget committee.

Student Right to Know and Campus Security Act of 1990

The Student Right to Know and Campus Security Act (P.L. 101-542) requires the College to compile and release completion, graduation, and transfer-out rates for all students, safety and policies and crime statistics. This information is available from the Office of Institutional Research.
The campus security policy and crime statistics are published below.

Campus Security Policy

All criminal incidents can and should be reported to the NWFSC administrator in charge of a function, the campus receptionist, or an attending faculty or staff member. NWFSC will implement appropriate actions including, but not limited to, contacting the presiding law enforcement agency, any medical services needed, or others as needed. Incident Forms are available in Dean of Students Office, the Business Office and the off-campus centers. All incidents must be communicated, in writing, to the Vice President for Administrative Services or the Dean of Students as soon as possible.

Summary of Reported Crimes on Campus

This information is provided to all students and employees in compliance with The Federal Student Right-to-Know and Campus Security Act. Questions about this report or Campus Security in general may be directed to the Director of Physical Plant Department or the Dean of Students.

2011	2012	2013
Total Crimes	Hate Crimes	Total Crimes
Hate Crimes	Total Crimes	Hate Crimes
Homicide Offenses	0	0
0	0	0

0	Sex Offenses, Nonforcible	0
0	0	0
0	0	Sex Offenses, Forcible
0	0	0
0	0	0
Robbery	0	0
0	0	0
0	Aggravated Assault	0
0	0	0
0	0	Burglary / Breaking & Entering
0	0	0
0	0	0
Larceny / Theft Offenses	2	0
0	0	0
0	Motor Vehicle Theft	0
0	0	0
0	0	Liquor Law Violations
0	0	0
0	0	0
Drug Abuse Violations	0	0
0	0	0
0	Weapon Possessions	0
0	0	0

Federal and State law requires a person designated as a "sexual predator or offender" to register with the Florida Department of Law Enforcement (FDLE). The FDLE then is required to notify the local law enforcement agency where the registrant resides or attends an institution of higher learning. Information regarding sexual predators or offenders attending an institution of higher learning may be obtained from the local law enforcement agency with jurisdiction for the particular NWFSC campus or center, by calling the FDLE hotline (1-888-FL-PREDATOR) or (1-888-357-7332), by visiting the FDLE website at www.fdle.state.fl.us, or the Dean of Students.

A Student's Guide to Reporting Harassment

The purpose of this guide is to ensure an orderly resolution of charges of sexual, racial, or other forms of harassment brought by students at NWFSC. Sexual harassment and racial harassment have been held to constitute a form of discrimination prohibited by the Title VII of the Civil Rights Act of 1964, as amended and Title IX of the Education Amendments of 1972. Applicable law prohibits other types of harassment.

NWF State College upholds the Clery Act and Violence Against Women Reauthorization Act of 2013.
NWFSC prohibits all acts of harassment and will properly investigate any claims of harassment.

Sexual and Other Unlawful Harassment

NWFSC is committed to providing an educational and work environment that is free from all forms of discrimination and harassment. NWFSC expressly prohibits any form of unlawful discrimination or harassment based on race, color, gender, religion, national origin, age, ethnicity, marital status, or disability or genetic information. NWFSC provides ongoing harassment training to ensure everyone the opportunity to work and/or learn in an environment free of sexual and other unlawful harassment.

Definitions of Harassment

Sexual harassment is defined as unwanted sexual advances, including visual, verbal, or physical conduct of a sexual nature. This definition includes gender-based harassment of a person of the same sex as the harasser. Examples of conduct expressly prohibited by the policy include, but are not limited to, the following:
Making unwanted sexual advances.
Offering employment benefits in exchange for sexual favors.
Making or threatening reprisals after a negative response to sexual advances.
Leering, making sexual gestures, or displaying of sexually suggestive objects, pictures, cartoons, or posters.
Making or using derogatory comments, epithets, slurs, or jokes.
Making verbal commentaries about an individual's body.
Using sexually degrading words used to describe an individual.
Sending suggestive or obscene letters, notes, communications or invitations.
Touching, assaulting, impeding or blocking movements or violating someone's "personal space."
Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature constitute harassment when: (1) submission to such conduct is made either explicitly or implicitly a term or condition of employment or reward; (2) submission to or rejection of the conduct is used as a basis for making educational, academic, or employment decisions; or, (3) the conduct has the purpose or effect of interfering with educational, academic, or employment performance or creating an intimidating, hostile, or offensive educational, academic, or employment environment.

Responsibilities

All College employees and students are responsible for creating an atmosphere free of discrimination or harassment, sexual or otherwise. Further, all College employees and students are responsible for respecting the rights of all members of the College community. Any student who experiences or witnesses any sexual or other unlawful harassment or discrimination in the College environment should promptly report the behavior to the Dean of Students. If the Dean of Students is unavailable, the student should promptly contact the Human Resources Office. Reports should be made, in writing, within sixty working days of the incident. This policy applies to all incidents of alleged discrimination or harassment, including those occurring off-campus or during off-hours, when the alleged offender has a relationship with the College.

Investigation

All allegations of sexual or other harassment will be quickly and discreetly investigated and kept confidential to the maximum extent possible. All students have a duty to cooperate fully with the College in connection with any such investigation. If NWFSC determines that an employee or student is guilty of discriminating against or harassing another individual, appropriate disciplinary action will be taken against the offending employee or student, up to and including termination of employment, suspension, or expulsion.

Retaliation

NWFSC prohibits any form of retaliation against any student or employee for filing a bona fide complaint under this policy or for assisting in a complaint investigation. However, if after investigating any complaint of harassment or unlawful discrimination, the College determines that the complaint is not bona fide and was not made in good faith or that a student has provided false

information regarding the complaint, disciplinary action may be taken against the individual who filed the complaint or gave false information.

Office of the Student Ombudsman

Per Florida Statute 1006.51, NWFSC provides a Student Ombudsman with whom students may confidentially discuss complaints, concerns, or problems to reach an informal consensus before proceeding with official college processes. The Director of Student Life on the Niceville Campus will serve as the Student Ombudsman and may be contacted at 850-729-5277 or ombudsman@nwfsc.edu.

Student Grievance Procedures

Student grievances fall into two categories: academic and all other. While the grievance process is similar for both, different college offices are responsible for each category. NWFSC prohibits any form of retaliation against any student filing a grievance, academic or non-academic.

Academic Grievances

Academic grievances must be initiated within 30 days of the incident being grieved. If a student believes that he or she has not been graded fairly in a course, a grievance may be filed. The grade grievance process applies only to final course grades.

Informal Academic Grievance Process

The student should first request a meeting with his or her instructor. If the matter is not resolved to the student's satisfaction, the matter can then be discussed with the department chairperson or program director. If the grievance is not satisfactorily resolved informally, the student may then proceed with the formal process listed below.

Formal Academic Grievance Process

The student should submit the grievance in writing to the appropriate Academic Dean who will conduct an adequate, reliable, and impartial investigation of the complaint and render a decision. The student will be notified of the response to his or her grievance and the basis for that decision within 10 business days. If the grievance is not satisfactorily resolved at this level, the student may appeal the decision to the Vice President.
The Vice President of Academic Affairs will likewise conduct an adequate, reliable, and impartial investigation of the complaint and render a decision. The Vice President may refer the matter to an ad hoc hearing committee to assist in evaluating the complaint. The student will be notified of the response to his or her grievance and the basis for that decision within 10 business days. The student may also appeal the decision of the Vice President by requesting a formal hearing (see Student Due Process) conducted by the Judicial Council.

Non-Academic Grievances

Non-Academic grievances must be initiated within 30 days of the incident being grieved. These procedures apply to all non-academic student grievances, including those alleging discrimination and harassment.

Informal Non-Academic Grievance Process

The student should first request a conference with the Dean of Students. The Dean will attempt to resolve the grievance informally to the satisfaction of the student. If the issue is not resolved the student may proceed to the formal grievance process.

Formal Non-Academic Grievance Process

The Dean will conduct an adequate, reliable, and impartial investigation of the complaint and render a decision. The Dean of Students may refer the matter to an ad hoc hearing committee to assist in evaluating the complaint. The student will be notified of the response to his or her grievance and the basis for that decision within 10 business days. The student may also appeal the decision of the Dean by requesting a formal hearing (see Student Due Process) conducted by the Judicial Council.

Student Code of Conduct

College students are citizens of the local, state, and national governments and of the academic community and are therefore, expected to conduct themselves as law abiding members of each community at all times. Admission to the College carries with it special privileges and imparts special responsibilities apart from those rights and duties enjoyed by non-students. In recognition of the special relationship that exists between the College and the community, it seeks to serve, the Northwest Florida State College Board of Trustees has authorized the President of the College to take such action that may be necessary to maintain campus safety and preserve the integrity of the College and its educational environment.
Pursuant to this authorization, the College has developed the following regulations, which are intended to govern student conduct on the campus. The College may enforce its own regulations regardless of any proceedings instituted by other authorities. Conversely, violation of any section of these regulations may subject a student to disciplinary measures by the College whether or not such conduct is simultaneously in violation of local, state, or national laws. When a student fails to abide by the rules and regulations of the College or fails to obey the ordinance of local, state, and national governments, disciplinary action may be taken.

Student Disciplinary Offenses

For the purpose of these regulations, a "student" shall mean any person who is registered for study at the College for any academic period. Generally, through appropriate due process procedures, College disciplinary measures shall be imposed for conduct which adversely affects the College's pursuit of its educational objectives, which violates or shows a disregard for the rights of other members of the academic community, or which endangers property or person at the College or on any College controlled property. All police officers have been given the authority to control access and to patrol facilities. Failure to leave after instruction to do so can result in trespassing charges. Individual, group, or organizational misconduct, which is subject to disciplinary sanctions, shall include but not be limited to the following offenses:

Academic Offenses

Academic dishonesty: Students are expected to conduct themselves as responsible members of the academic community and to be honest and forthright in their academic endeavors. Academic dishonesty may include but is not limited to:
Cheating: During any academic evaluation activity, the use or attempted use of unauthorized materials, information, notes, study aids or other devices, information from another student or student's paper. During any academic evaluation activity, engaging in unauthorized communication of information, including collaborating, contrary to the requirements of a course.
Plagiarism: Presenting work in part or whole of another as one's own without proper acknowledgment of the source or sources. The sole exception to the requirement of acknowledging sources occurs when ideas or information are common knowledge.

Non-Academic Offenses

Aiding and abetting the commission of offenses: Any attempt to commit any of the foregoing offenses or the aiding and abetting of the commission of any of the foregoing offenses (an "attempt" to commit an offense is defined as the intention to commit an offense coupled with the taking of some action toward its commission).
Alcoholic beverages: The unauthorized use and or possession of alcoholic beverages on the College campus, or at any College sponsored event, except College events where alcoholic beverages are provided by the College.
Bullying: Systematically and chronically inflicting physical hurt or psychological distress on one or more students. Bullying is further defined as unwanted and repeated written, verbal, or physical behavior, including any threatening, insulting or dehumanizing gesture by a student that is severe or pervasive enough to create an intimidating, hostile, or offensive educational environment, cause discomfort or humiliation, or unreasonably interfere with an individual's educational experience.
Bullying includes: Teasing; social exclusion; threat; intimidation; stalking; physical violence; theft; sexual, religious or racial harassment; public or private humiliation; and/or destruction of property.
Cyberbullying: Bullying, through the use of technology or any electronic communication, includes, but is not limited to, transfer of

signs, signals, writing, images, sounds, data or intelligence of any nature transmitted in photo-optical systems, email, internet, webpages, instant messages, facsimile, social networking and/or phone. Bullying is created by the transmission of electronic content which is communicated and posted to more than one person that interferes with the orderly operation of the educational environment.

Classroom misconduct: Classroom misconduct includes direct or indirect disruptive, threatening, or otherwise unacceptable social behavior in the classroom. Engaging in or assisting with such activity is prohibited. The instructor has the primary responsibility for control over classroom behavior and maintenance of academic integrity and can order any student engaged in disruptive conduct or conduct that violates the general rules and regulations of the College to be temporarily removed or expelled from the classroom.

Dangerous conduct: Any conduct that constitutes a serious danger to any person's health, safety, or personal well-being, including any physical or immediate threat to others.

Dating violence, domestic violence, sex assault, or stalking: A type of abuse or violence where there is a pattern of controlling behaviors that one person is used to establish power over an intimate partner in order to control actions and activities. One can experience trauma where abusive relationships can increase in danger, or dangerous situations where students would not feel safe or secure. Actions include disrespectful and hurtful behaviors that one intimate partner may use against another partner, causing a partner physically harm, stalking, threating, isolating, gesturing and/or demanding unwanted sex practices.

Disorderly conduct or language: Any individual or group behavior or language which is abusive, obscene, lewd, indecent, violent, excessively noisy, disorderly, or which unreasonably disturbs other groups or individuals.

Drugs: The unlawful possession or use of any drug or controlled substance, including any stimulant, depressant, narcotic, hallucinogenic drug or substance, marijuana, or sale or distribution of any such drug or controlled substance on college owned or controlled property or at any college sponsored activity.

Explosives, fireworks, and flammable materials: The unauthorized possession, ignition, or detonation of any object or article, that would cause damage by fire or other means to persons or property.

Failure to cooperate with College officials: Failure to comply with directions of College officials acting in the performance of their duties.

Financial misconduct: Conduct, including but not limited to, knowingly passing forms of payment such as a worthless check, debit, credit card, or money order in payment to the College community.

Firearms and other dangerous weapons: Any unauthorized or illegal possession or use of a firearm or dangerous weapon of any kind is prohibited. Firearms or any other dangerous weapons are not permitted on campus at any time for any reason except by authorized sworn law enforcement personnel.

Gambling: Gambling in any form.

Harassment: Any act of harassment by an individual or group against a student, college employee, campus group, visitor, or guest. Harassment shall include, but not be limited to, insults, heckling, verbal abuse, threats of physical abuse, unwanted suggestions of a sexual nature, repeated teasing or annoyance of another, or other actions intended to disturb others.

Hazing: Hazing is any intentional or reckless act, on or off the property of the College, by students acting alone, or with others, involving any action which is directed against any other students that endangers the mental or physical health or safety of that student, or which induces or coerces a student to endanger such student's mental or physical health or safety. For the purpose of this statement, hazing is defined as those actions taken and situations created in connection with initiation into or affiliation with any organization.

Inappropriate dress: College students are mature enough to make wise and appropriate decisions on the type of apparel suitable for a college campus. Attire that disrupts the learning process, is not allowed. Dress that includes any words or images that are obscene, offensive, or tend to promote violence, drugs or disrespect is prohibited.

Misuse of documents or identification cards: Any forgery, alteration of, or unauthorized use of College documents, forms, records, or identification cards including information collected in connection with a student's admission, enrollment, financial transactions, or status in the College.

Obstruction of or interference with College activities or facilities: Any intentional interference with or obstruction of any College activity, program, event, or facilities including the following:

Unauthorized occupancy of the College, College controlled facilities, or blockage of access to or from such facilities.

Interference with the right of way of any college member or other authorized person to gain access to the College or College controlled activity, program, event, or facilities.

Obstruction or delay of a campus security officer, fire/rescue service, or any College official in the performance of his/her duty.

Acts of misuse, vandalism, malicious or unwarranted damage or destruction, defacing, disfiguring, or unauthorized use of property belonging to the College including but not limited to: fire alarms, fire equipment, elevators, telephones, College keys, library materials, and or safety devices; and any such act against a member of the College community or a guest of the College.

Theft: Unauthorized possession or sale of College property

Unacceptable conduct at a College hearing: Any conduct at any College hearing involving contemptuous, disrespectful, or

disorderly behavior or false testimony or other evidence at any hearing.
Violations of general rules and regulations: Any violation of the general rules and regulations of the College as published in an official College publication, including the intentional failure to perform any required action or the intentional performance of any prohibited action.
Violations of state or federal laws: Any violation of state or federal laws or regulations proscribing conduct or establishing offenses.

Disciplinary Procedures

Disciplinary offenses fall into two categories: academic and all others. While the procedures are similar for both, different college offices are responsible each category. The Dean of Students and/or the Vice President for Academic Affairs, if the offense is academic in nature, are responsible for enforcement of student disciplinary policies and procedures, and will, in the pursuit of that responsibility, observe the proper aim of discipline, observe due process procedure, consider all evidence, determine the facts, render a decision, and impose appropriate disciplinary sanctions when a student has been charged with violation of College rules and/or regulations. Ultimately the President has responsibility and oversight of student disciplinary procedures, processes, and sanctions.

Disciplinary Process

Conference: The Dean of Students, Vice President of Academic Affairs, or designee, hereafter referred to as the "Administrator", shall request a meeting with the student for a preliminary conference where the student shall be apprised of his/her basic rights and made aware of the student due process procedures.
The student will be extended the opportunity to explain the conduct in question and provide the Administrator with a detailed written explanation. Failure of the student to meet with the Administrator within 10 days of the request for a meeting will not prevent the process of collecting information or the decision to move forward.
Investigation: The Administrator shall consider all evidence, determine the facts, render a decision, and impose disciplinary sanction(s) as necessary.
Sanctions: The Administrator will, in writing, identify the claimed misconduct, infraction or offense and present a statement of the full penalty or sanction, in addition to a statement of the student's right to due process. The student shall be provided this information either in person or by college email and registered mail.

Disciplinary Sanctions

Upon determination that a student or organization has violated any of the rules, regulations, or disciplinary offenses set forth in College policy, the Administrator may impose the following disciplinary sanctions either singly or in combination.
Warning: The appropriate College officials may notify the student that continuation or repetition of specified conduct may be cause for other disciplinary action.
Reprimand: A written reprimand or censure may be given any student or organization whose conduct violates any part of these regulations. Such a reprimand does not restrict the student in any way, but does have important consequences. It signifies that he or she is in effect being given another chance to conduct himself or herself as a proper member of the College community and that any further violation may result in more serious penalties.
Restitution: A student who has committed an offense against property may be required to reimburse the College or other owner for damage to or misappropriation of such property. Any such payment in restitution shall be limited to cost of repair or placement.
Restrictions: Restrictions upon a student or organization's privileges for a period of time may be imposed. These restrictions may include, for example, denial of the right to represent the College in any way, denial of use of facilities, parking privileges, participation in extracurricular activities, or restriction of organizational privileges.
Disciplinary Probation: Continued enrollment of a student on probation may be conditioned upon or adherence to these regulations. Any student placed on probation will be notified of such in writing and will also be notified of the terms and length of probation. Probation may include restrictions upon the extracurricular activities of a student. Any conduct in violation of these regulations while on probationary status may result in the imposition of a more serious disciplinary action.
Suspension: If a student is suspended, he or she is separated from the College for a stated period of time with conditions of readmission to the College. Student must appeal for reinstatement.
Expulsion: Permanent removal and exclusion from the College, College controlled facilities, programs, events, and activities.
Dismissal: The dismissal of a student whose character and behavior prove unsatisfactory for a period up to two years.
Some disciplinary actions must adhere to additional state, federal, or organizational and accrediting agency guidelines and

regulations. Immediate sanctions, up to and including expulsion, or dismissal may be necessary in some cases to guarantee the safety and harmony of the college environment. To provide and protect a safe learning environment, the College reserves the right to invoke immediate sanctions based upon the nature and seriousness of the offense. At this point, the student is able to request a final appeal to the President.

Student Due Process

The following procedures may be utilized in the case of a student grievance or a disciplinary offense.

Appeal to the Judicial Council

A formal hearing shall take place when recommended by the Vice President of Academic Affairs or the Dean of Students, hereafter referred to as the Administrator, or in the event a student wishes to appeal a prior decision made during the formal process. An appeal must be submitted in writing within 10 consecutive calendar days from the receipt of official notification to the student.

Judicial Council Membership

The hearing panel, appointed by the Administrator, shall consist of two full-time college employees (faculty members when the appeal is academic), one full-time student affairs employee, and two students. If a final grade is grieved, the faculty members shall be selected from a department other than that of the faculty member who awarded the grade in question. The student members shall not be enrolled in the same program of study or courses as the student filing the grievance.
The Administrator will serve as the recording secretary and facilitator for the hearing but shall have not vote. Any student acquitted of charges after the hearing will be provided an opportunity to make up class work that may have been missed as a result of suspension during the procedural action. In all disciplinary hearings, the following procedures shall be observed:
The student will be notified in writing, via college email and registered mail, of the date of the committee hearing and of his or her rights pertaining to that hearing at least 10 consecutive calendar days prior to the hearing. When applicable, the student shall be advised of the breach of rules or regulations of which he/she is charged.
The student may present witnesses and other evidence as may the responding party. The student may bring an attorney to the hearing; however, the attorney cannot actively participate in the hearing, but can counsel the student. When the case relates to dating violence, domestic violence, sex assault or stalking, the accuser and accused have the opportunity to be present weith a representative during the disciplinary hearing. The following events will occur during an actual hearing: a. The student and the Administrator will make an opening statement. b. The Administrator will present all pertinent information and/or witnesses regarding the claimed breach of rules as related to misconduct when applicable. c. After hearing all evidence presented, the student may question the responding party or witnesses. d. The student will then have the opportunity to present his/her case, including all evidence, witnesses, and no more than two (2) character witnesses from the student body, faculty, or staff. e. The Administrator will have the right to question the student and/or witnesses. f. The hearing committee will have the right to question the student and/or witnesses.
After considering all evidence, the committee shall meet in private and may uphold, alter, or rescind a previous decision. The committee will also determine appropriate disciplinary sanctions when applicable.
The student will be notified of the committee's decision and the basis for that decision. This official notification will be sent by college email and registered mail, within 10 business days of the hearing. If this timeline is not met, the student may progress without notice to the next step.
Hearings go forward unless the student notifies the Administrator a minimum of 24 hours in advance of his or her impending absence. Failure by the student to appear at the hearing will not prevent the panel from hearing evidence or rendering a decision.

Appeal to the President

The student may appeal the committee's decision to the President within 10 calendar days from the date of receipt of official notification.
After considering all evidence, the President may uphold, alter, or rescind the committee's decision.
The President shall notify the student of the decision, either in person or by college email and registered mail within 10 business days.
Decisions at this level are final.

Student Life

Athletics
Get Involved
Student Organization
Student Organization Terms

Get Involved

College is much more than just academics. The invaluable experiences gained through co-curricular activities can't just be delivered in the classroom alone. The term "co-curricular" replaced the previously used term "extra-curricular" to emphasize that your involvement outside the classroom goes hand in hand with your classroom academics!
Student Life strives to cultivate a campus environment that promotes equity, opportunities for all students to participate in extracurricular activities, and the environment for each student to learn and practice essential skills needed after college life. Student Life provides support to students, student organizations, community service projects, and community activities that may enhance the quality of educational life for students. Student Life also provides social and cultural enrichment opportunities in Okaloosa and Walton counties.

Athletics

NWFSC is an active member of the National Junior College Athletic Association (NJCAA) and the Florida College System Activities Association (FCSAA) which is composed of all public community and state colleges in Florida.

Intercollegiate Sports

Intercollegiate Sports operate under the rules and regulations of NJCAA and FCSAA. Varsity athletes enjoy the privilege, honor, and social distinction of representing the college in the field of athletic competition. Representation of the college is open by competitive selection to all students provided they meet the eligibility requirements of the FCSAA. Intercollegiate sports include basketball for men and women, baseball for men, and fast-pitch softball for women.

Intramural Activities

Intramural Activities may be offered based on student interest. These include team sports such as flag football, volleyball, softball, tennis, and basketball, as well as individual and recreational sports such as tennis, racquetball, and backgammon. Classes, clubs, organizations and independent groups are encouraged to form teams and compete.
Times, schedules, and places of meeting for activities are posted on the bulletin boards located in the Activities Center and throughout the Niceville Campus.

Student Organizations

Student Life oversees a wide variety of student organizations that cover many interests and activities. Membership is open to all students who qualify, without regard to age, color, creed, handicap, marital status, national origin, race, religion or sex, except for those particular groups which are selective on the basis of scholarship. For more information on getting involved with a student organization or starting one, visit Student Life at www.nwfsc.edu/studentlife or contact the office at (850) 729-5348.

Student Government Association

Student Government Association (SGA) provides a voice for the Northwest Florida State College student body in all college affairs while helping to further the goals of the college from a student perspective. The President of SGA is a member of the Administrators, Supervisors and Professionals Council (ASP) and represents the student body. The SGA president receives a yearly tuition scholarship. The SGA Senate and President are housed in the Activities Center.
SGA participates with the Florida College System Student Government Association (FCSSGA) in representing students across the

state to advocate change in Florida legislation beneficial to all college students. Lastly, SGA coordinates and regulates various activities for students such as fall and spring flings and various service learning opportunities.
All currently enrolled students of NWFSC are members of SGA with the right to full voice, upon recognition, in all SGA functions. However, the only students with the right to vote in SGA functions are; the elected Vice-President, elected and appointed Senators, and appointed Officers of the SGA Executive Board; In the event of a tie vote at any SGA function, the SGA President will cast the deciding vote.

Student Activities Board

Student Activities Board (SAB) provides coordination among all of student clubs and organizations. The executive board consists of a member from each of the school sanctioned organizations: Brain Bowl, Forensics, Phi Theta Kappa, and SGA. The SAB makes budgeting decisions regarding student activity funding. The vice president of SGA is the presiding officer and receives a tuition scholarship.
The names of recognized student organizations are owned by NWFSC. Students or others shall not organize independent groups of the same name nor function as a group independent of the college utilizing the name of a NWFSC student organization.

Student Organization Terms

Each student activity, club, and organization authorized to function in the name of the College shall be organized, chartered and operated in accordance with Florida Statutes, State Board Rules, NWFSC Student Handbook, and the Student Organization Handbook. Visit Student Life (www.nwfsc.edu/studentlife) for more information.

Student Records

Academic History Grade Relief Option
Academic Standing
Achievement Awards
Articulation of Vocational Courses/Credits
Course Challenge Examination
Credit by Alternative Means of Study
Credit for Armed Services Schools & Military Training
Dean's and President's Lists
Enrollment and Degree Verification
FERPA
Grades
Grade Grievances
Grade Changes/Errors
Grades Table
Incomplete Grades
Jump Start
Repeating Courses
Student Contact Information
Student Records
Student Transcripts
Transfer Credit
Transient Students from NWFSC

Student Records

The Registrar's Office Services houses all official records of students who have attended NWFSC. Information is released only upon the request of the student in accordance with Federal laws.

Student Transcripts

A transcript is a student's official academic record. Students requesting an official transcript may do so online through RaiderNet or by completing a Transcript Request form found online or by submitting a signed written request by mail or fax. There is a $5.00 fee per transcript. There is no charge for transcripts that are sent electronically to other Florida public institutions. Transcripts will be sent within five (5) to ten (10) working days of the request.
Transcripts will not be released if the student has an outstanding financial obligation to the college or an incomplete admission file.

Student Contact Information

It is the student's responsibility to notify the College of change of address or phone number. Students can update contact information in RaiderNet or at any NWFSC location.

Family Educational Right to Privacy Act (FERPA), The Buckley Amendment

NWFSC upholds the Federal law, The Family Educational Rights & Privacy Act (FERPA), giving students the right to inspect, review, and amend their educational records. The college will not release or disclose information nor allow inspection of records without prior written permission from the student except under certain circumstances where, by law, prior consent is not required. Students have the right to file a complaint with the U.S. Department of Education if they feel their records have been inappropriately released.

Eligible Parent:

A parent or guardian providing documentation that supports the student is a legal dependent for tax purposes may review a student's records.

Details:

The college will provide students in attendance with an annual notification of the rights available under FERPA. A Student Handbook is produced on an annual basis and is included in the College catalog.

Right to Review and Inspect:

Students have the right to review and inspect their permanent student records. A student desiring to review records may do so by submitting a request in writing to the Director of Records who will schedule such inspections within 45 College business days of the request. A student desiring copies of educational records may receive them after payment of a fee of $1.00 per sheet. This is exclusive of the normal transcript service.

Waiver of Right to Inspect:

The College will not provide confidential letters or statements of recommendation concerning admission to another educational institution, or applications for employment, unless the student has waived the right to inspect such letters or statements.

Right to Amend Educational Records:

The student, or eligible parents of the student, may direct challenges related to the accuracy of the records to the Dean of Students. The Dean of Students will schedule a hearing within 10 calendar days of initial notification of the challenge to allow the student to present evidence relevant to the matter at the hearing. The student, or eligible parents of the student, will be notified in writing of the results. A student can insert a statement in his/her record after a hearing, if the college maintains, upholds or rules against the challenge.

Disclosure Policy:

There are two types of information distinguished under FERPA: personally identifiable information and directory information. Certain conditions exist with regard to disclosure of each kind of information. NWFSC complies as follows:
Personally Identifiable Information: Personally Identifiable Information is information that includes identifying data such as social security number, academic work completed, grades, achievement test scores, aptitude test scores, health data, or other personal characteristics or information which would make the student's identity easily traceable. Prior consent, in the form of a signed and dated document, must be provided by the student to authorize the College to disclose personally identifiable information. The consent must specify educational records that may be disclosed, should state purpose of the disclosure, and must identify the party or class of parties to whom disclosure may be made.
Directory Information: FERPA allows for the disclosure of directory information as identified by the institution. NWFSC has

designated the student's name, city or county of residence, major field of study, most recent education agency or institution attended, degrees, honors and awards, height and weight of student athletes and participation in officially recognized activities as directory information. A student has the right to refuse designation of any or all of this directory information by notifying the Registrar, in writing, at least 10 calendar days prior to enrolling in the term that the directory information block should begin. Once a student obtains a confidential classification, it will not be removed until a signed authorization requesting it be removed is received by the Registrar. A student's request to prevent the release of any informational items will result in preventing the publication of all items including graduation, honors, and awards.

Exceptions to the Disclosure Policy:

FERPA allows for the release of student records without written consent of the student under the following conditions:
To school officials with legitimate educational interest. The college has designated school officials such as faculty, administration, professional employees, support staff, work-study students, or persons employed by or under contract to the college (example: an attorney or auditor) acting as an official agent of the college to perform a business function or service on behalf of the institution. A school official is determined to have legitimate educational interest if the information requested is necessary for that official to: perform appropriate tasks that are specified in his or her position description or by a contract agreement; institution research and studies, perform a task related to a student's education; perform a task related to the discipline of a student; provide a service or benefit relating to the student or student's family, such as health care, counseling, job placement, or financial aid. Disclosure to a school official having a legitimate education interest does not constitute institutional authorization to transmit, share, or disclose any or all information received to a third party. An unauthorized disclosure of personally identifiable information from the education record of the students is prohibited.
In compliance with a court order or subpoena
To parents of a dependent student or such parents as defined in Section 152 of the Internal Revenue Code of 1954
To schools in which a student seeks or intends to enroll
To the Comptroller General of the United States, Attorney General of the United States, The Secretary of the Department of Education, and federal, state and local educational authorities involving an audit or evaluation of compliance with education programs
In connection with the financial aid process
In the event of a health or safety emergency where the information is required to resolve the emergency
In the event a student under the age of 21 has committed a drug or alcohol related offense
As the result of a disciplinary hearing where the student is the perpetrator of a crime of violence or a non-forcible sex offense. Under this exception, information may be released to anyone, including the media. No information on the victim or witnesses may be released

Students' Rights

A student has a right to file a complaint to The Family Policy Compliance Office, U. S. Department of Education, 400 Independence Ave., SW, Washington, D.C. 20202-4605, the office responsible for enforcing and administering the Family Educational Rights and Privacy Act. There are two basic requirements for a complaint to be properly filed against an institution in relation to FERPA infractions:
The complaint must be made within 180 days of when the infraction was discovered.
There must be sufficient facts (evidence) to prove the violation.

Enrollment and Degree Verification

The National Student Clearinghouse provides free enrollment and degree verifications for the purposes of employment, obtaining Military ID cards, Health Insurance or background screening. Official, printed enrollment verification certificates can be obtained through RaiderNet. The National Student Clearinghouse can be contacted at:

Web: Phone: Email:	www.degreeverify.com (703) 742-4200 degreeverify@studentclearinghouse.org	Address: National Student Clearinghouse 2300 Dulles Station Blvd., Suite 300 Herndon, VA 20171

Transient Students from NWFSC

Currently enrolled degree-seeking students may request approval from the Director of Records/Registrar to concurrently enroll at another college or university under limited extenuating circumstances. Students should complete an Application for Transient Study form prior to enrolling at the other institution. The form should be submitted to the Advising Office for initial review. Transient Student Authorization forms may be obtained online or from any NWFSC Center/Campus. An electronic version of the form is available for students attending a Florida public institution at www.flvc.org. Approval of transient study requests is determined by the Director of Advising and Testing and the Director of Records/Registrar. Upon completion of the course(s), request an official transcript to be sent directly to NWFSC Registrar's Office.
Students must meet the following criteria before approval can be granted:
Be a degree-seeking student in good standing.
Meet the appropriate NWFSC minimum credit hour residency requirement for the degree program.
The requested course must be needed for the degree/certificate at NWFSC.
Meet pre-requisites and/or testing requirements for the course at NWFSC.

Transfer Credit

Evaluation of transfer credit is completed for all degree-seeking students with a completed admission file. All credits at other colleges or universities accredited by one of the regional higher education accrediting bodies will be evaluated for transferability to the student's permanent record (transcript) as follows:
For students pursuing an associate degree or college certificate, all attempted credits at the freshman and sophomore level, and
For students pursuing a baccalaureate degree, all attempted credits at the freshman, sophomore, junior and senior level.
Credits recorded as transfer credit on the student's permanent record (transcript) do not guarantee that these credits will meet specific degree requirements for the student's program. The college may limit the number of transfer credits applicable towards the student's degree. The determination of how transfer credits may apply to a specific degree program rests with the College Registrar in consultation with the appropriate faculty/instructional staff.
The following factors will be considered in the evaluation of credits for transfer. The factors will be used in determining whether the course is transferable and in determining whether the course is recorded as a specific or unclassified course.
Breadth, depth and rigor of course content as evidenced by course syllabi, prerequisites, placement test scores, exit requirements, student portfolios, textbooks, writing or oral communication requirements, grading standards, catalog descriptions, etc.
Qualifications of the faculty member(s) providing the instruction
Age of credits
Recommendations through other established credit assessment bodies (e.g. ACE)
Institutional accreditation via other professional assessment/accrediting bodies (e.g. AMA, NLN, state agency)
Secondary documentation of course competencies (e.g. professional certification, standardized exam scores, etc.)

Recording Transfer Credits on the Student's Permanent Record (Transcript)

When evaluating credits, NWFSC reserves the right to delay recording the transfer credits on the student's permanent record until the student has completed admissions requirements, successfully completed college-level coursework at NWFSC, satisfied residency requirements and/or provided documentation or verification of student competencies. Final award or posting of credits to the student's permanent record may be contingent upon successful completion of one or more of the following requirements:
NWFSC residency requirement;
Higher-level courses in the same or a related subject area;
Subsequent courses in the subject/course sequence;
Demonstration of specific lab/clinical skills or other applied competencies;

Additional independent/directed study in the subject area.
Once accepted, transfer credits will be recorded on the student's permanent record as externally awarded and will indicate the original institution awarding the credit. Where appropriate, an equivalent NWFSC course number may also be indicated. When the college does not offer an equivalent course or if the course differs substantively from the suggested NWFSC course, the transfer credits may be listed on the transcript as an "unclassified" course. The unclassified credits will be further described as an open elective, a subject area elective, a general education elective or a general education subject area course, as appropriate.

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:
"Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students."

Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have been exempted from the guarantee of transfer for equivalent courses. These include courses that must be evaluated individually or courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.
Courses not offered by the receiving institution.
For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations.
Developmental courses.
Graduate courses.
Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.
Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

Courses at Nonregionally Accredited Institutions using Florida Common Course Numbering

The Statewide Common Course Numbering System (SCNS) makes available on its home page (http://scns.fldoe.org) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.
Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to the Vice President of Academic Affairs, Building A, Niceville Campus, or to the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the SCNS office at (850) 245-0427 or at http://scns.fldoe.org.

Acceptance of Transfer Credits from Other Non-Regionally Accredited Institutions

Credits awarded at non-regionally accredited institutions may be accepted by NWFSC and placed on the transcript if the credits

represent collegiate level coursework relevant to the program of study, with course credit and level of instruction resulting in student competencies at least equivalent to those of students enrolled in comparable instruction at NWFSC. Students will need to complete a Transfer Credit Appeal form in order for the credits to be evaluated. Acceptance of credits from non-regionally accredited institutions of higher education will be based upon recommendation from the NWFSC instructional department responsible for the course subject area(s) in conjunction with the Registrar.

Appeal of Transfer Credit

A student may appeal the denial of transfer credits by written request (Transfer Credit Appeal form) to the Record's Office. Credits in question will be reviewed by a subject area expert(s) from the instructional department normally responsible for the subject matter in question. The review process will parallel that applied to the general evaluation of credits for transfer. The final determination will be made by the Registrar's Office in consultation with Academic Affairs.

Application of Transfer Credits to Baccalaureate Degree Programs

Lower division college credits in technical areas not generally applicable at the baccalaureate degree level will be reviewed according to the following factors prior to their acceptance as satisfying degree requirements.
Breadth, depth and rigor of course content as evidenced by course syllabi, prerequisites, placement test scores, exit requirements, student portfolios, textbooks, writing or oral communication requirements, grading standards, catalog descriptions, etc.
Qualifications of the faculty member(s) providing the instruction
Age of credits
Recommendations through other established credit assessment bodies (e.g. ACE)
Institutional accreditation via other professional assessment/accrediting bodies (e.g. AMA, NLN, state agency)
Secondary documentation of course competencies (e.g. professional certification, standardized exam scores, etc.)
Where questions of applicability remain following such review, the credits may still be used to meet lower division degree requirements subject to one or more of the following conditions:
Successful completion of related higher-level courses in the student's program of study;
Successful completion of subsequent courses in the subject/course sequence;
Successful completion of complementary lower division coursework in the subject or related area;
Demonstration of specific lab/clinical skills or other applied competencies;
Completion of additional supplemental independent/directed study in the subject area which augments the skills/content of the technical course;
Presentation of a portfolio of work substantiating the breadth, depth and rigor of the course content to include both theory and applied competencies;
Analysis of clusters of course credits where a combination of technical courses may represent baccalaureate level competencies when viewed as a package (e.g. eight credits in technical coursework may correspond to a three credit traditional transfer course in a given subject area);
Verification of faculty credentials at the transferring institution.

International Students

International students must have their transcripts translated and evaluated by one of the credential evaluation agencies sanctioned by the National Association of Credential Evaluation Services, Inc. (NACES). Each course will be individually assessed for transfer consideration. Credits will be awarded on a course-by-course basis.

Credit by Alternative Means of Study

NWFSC will award credit for certain types of non-traditional study or credits earned through alternative means of study. No more than 75% of the credits in NWFSC's Baccalaureate, Associate and Certificate programs may be earned by alternate study. Alternative study methods covered under these limits include: Advanced Placement (AP), College Level Examination Program (CLEP), International Baccalaureate (IB), Excelsior College, Military Service School Credits, Correspondence Credits, the NWFSC's Course Challenge Exam Option, and Credits through Prior Learning Assessment. Credits for accelerated mechanisms defined under Florida rules and regulations will be awarded in accordance with Florida Administrative Code FAC 6A-10 and the

State of Florida's Articulation Coordinating Committee Credit-by-Exam equivalents.

Advanced Placement Credits (AP):

NWFSC participates in the Advanced Placement program conducted by the College Board. Advanced Placement Tests may be taken at participating high schools or centers. Upon receipt of official score reports from the College Board, college credits will be awarded as determined by the Admissions' Office under guidelines established by the State Board of Education. Scores of 3, 4, and 5 will be accepted for credit. No credit will be allowed for scores of 1 or 2.

Cambridge A-Level & AS-Level Exams (AICE):

NWFSC will award credit through the AICE program upon receipt of an official score report, as determined by the Admissions Office under the guidelines established by the State Board of Education.

College Level Examination Program (CLEP):

College credits may be earned through the successful completion of general and subject level examinations. A 50th percentile score is required for credit. Upon receipt of official score reports from the College Board, specific courses in which credit may be awarded is determined by the Record/Registrar Office under guidelines established by the State Board of Education. For information regarding how to register for the test and how the credits will be accepted, please refer the NWFSC Testing Center CLEP webpage.

International Baccalaureate (IB):

Students may receive up to 30 college credits for International Baccalaureate (IB) program higher level and subsidiary level examinations. Upon receipt of an official score report college credit will be awarded as determined by the Admissions Office under guidelines established by the State Board of Education.

DSST Examination:

College credit may be earned through DSST examination program. The official score report should be submitted to the Records/Registrar office to be evaluated under the guidelines established by the State Board of Education. For information regarding how to register for the test and how the credits will be accepted, please refer the NWFSC Testing Center DSST (DANTES) webpage.

Excelsior College Examination:

NWFSC will award credit through the Excelsior College exam program upon receipt of an official score report, as determined by the Registrar's Office under the guidelines established by the State Board of Education.

Comprehensive Course Challenge Examination for Credit

Eligible degree-seeking students that have accumulated a minimum of fifteen (15) hours in residence with NWFSC may earn credit through successful completion of the College's Course Challenge Examination. The comprehensive examination is intended to verify skills and knowledge acquired through prior learning experiences and is available for courses listed below.
Course Challenge Exams are available for the following courses: (Courses not listed MAY be available by special permission)

Advanced Technology

Microcomputer Servicing 4 Credit Hours
Introduction to Technical Drawing 3 Credit Hours

Allied Health

Medical Terminology 3 Credit Hours
Introduction to Critical Care Nursing 3 Credit Hours

Business/ Computer Technology

Microcomputer Applications 3 Credit Hours
Introduction to World Wide Web 3 Credit Hours
Introduction to Computer Science 3 Credit Hours
Introduction to Windows 3 credit hours
Introduction to Business 3 credit hours
Personnel Management 3 credit hours
Introduction to Marketing 3 credit hours
Business Mathematics 3 credit hours
Word Processing I 3 credit hours

Mathematics

Intermediate Algebra 4 Credit Hours

Science

Nutrition 3 Credit Hours

Public Safety

Introduction to Emergency Management 2 Credit Hours

Steps for Approval:

The student should consult with the Division Director/Department Chairperson regarding the availability of a course challenge exam for the specific course. Division Director/Department Chairperson will approve or disapprove request. If approval is granted, a date, time and place for the test should be arranged.
The Office of Enrollment Services will verify that the student meets all of the eligibility criteria. Students must be current/former student of NWFSC in good academic standing that are not currently enrolled but eligible to take the requested course. Student must not have received a grade (except 'W') nor enrolled in the course in the previous semester. Students are only allowed to attempt the Course Challenge once for each subject area and if there is no CLEP option available.
The student takes the signed form to the Business Office and pays the $100 testing fee prior to taking the exam. The cashier notates on the form the receipt of the fees which serves as an admission ticket for the student to take to the exam.
At the time the student takes the exam, he/she turns in the Course Challenge Exam form to the test administrator. At the end of the exam, the administrator will record whether the student passed or failed the exam and the form will be forwarded to the Registrar's office.
If the student passes the exam, he/she will receive full credit for the course with a transcript grade of "P". If the student fails the exam, no grade will be recorded.

Jump Start: Career Pathways and Industry Certifications

"Jump Start" is the name applied to the Career Pathway and Industry Certification articulation program between Northwest Florida State College, the Okaloosa and Walton School Districts and all students who meet the General Provisions of the agreement. High School and Adult students who have participated in career/technical programs and/or obtained industry certifications, have the

opportunity to apply skills acquired through those programs in partial fulfillment of a certificate and/or two-year degree program at NWFSC. The amount of credit awarded will depend upon established articulation agreements, skill assessment and departmental recommendations. Students receiving credit under this option must complete credits in residence at NWFSC, per established agreements before the credits will appear on the student's permanent record (transcript).

Articulation of Vocational Courses and Credits

For students who meet certain requirements, the college may award credit for certain types of non-traditional study such as High School Career Academy Courses and Certifications, Certified Professional Secretary Exam, Child Development Associate Certification, Licensed Practical Nurse (LPN) Bridge, Fire Science Training, Certified Law Enforcement or Correctional Officers, Licensed EMT/Paramedic, External PSAV to PSV or Internal PSAV to PSV agreements, or other such agreements as established by the NWFSC Curriculum Committee.
Credits awarded through these means will be documented on the NWFSC Articulation Analysis form, which will reside in the student's permanent file in the Records Office. Credits received through these methods may not be transferable or applicable to the A.A. degree.
Students who complete a diploma or certificate from a vocational or technical school at less than the college level may receive credit toward partial completion of a related technical program at the college. Credit is awarded based upon the nature of the training, current skill levels, and relationship to college program standards. The amount of credit awarded will depend upon established articulation agreements, skill assessment and departmental recommendations. Students receiving credit under this option must complete credits in residence at NWFSC, per established agreements, before the alternate credits will appear on the student's permanent record (transcript). Additional minimum grade or course requirements, as well as demonstration of competencies may also be required.
Students who complete a vocational school certificate program, which is contained in an approved articulation agreement with the college, will receive credit toward completion of a related technical program at the college per the details of the agreement. Credits received in this manner may not be transferable to upper division schools nor be applicable to the A.A. degree.
Students who complete a vocational certificate at NWFSC may receive credit toward partial completion of a related technical program at the college according to the credit/ competency equivalents established by the NWFSC Curriculum Committee.
Final decisions regarding the award of credits and the recording of credits on the student's transcript rest with the College Registrar.

Credit for Armed Services Schools and Military Training

Credits resulting from classroom-type instruction (i.e., excluding on-the-job training and correspondence-type courses) at U.S. Air Force, Army, Coast Guard, Marine or Naval Schools will be evaluated as stated on the official transcripts issued by the Community College of the Air Force (CCAF), the Sailor/Marine/ACE Registry Transcript (SMART), the Army/American Council on Education Registry Transcript System (AARTS) or the Military Education Transcript from the Coast Guard Institute. Credits for occupational and vocational technical courses may apply toward an A.S. degree or Technical Certificate. Credits received in this manner may not be transferable nor be applicable to the B.A.S. or A.A. degree. CLEP and DANTES credits will be evaluated by the Registrar in keeping with the state of Florida Articulation Agreement between community colleges and universities, upon receipt of official score reports from the College Board.

Achievement Awards

A student who has successfully completed a given set of skill courses within a particular degree or certificate program may be recognized for his/her mastery of these competencies with a NWFSC Achievement Award. Although the award does not indicate completion of an official, approved program of study, it does verify the student's proficiency with a specified group of skills. Achievement awards are not noted on the student's transcript or permanent record; however, the student will receive an NWFSC Achievement Certificate from the Office of Career and Technical Education that may be presented to an employer or agency as a record of this educational milestone. Students are encouraged to keep a copy of these awards as the college cannot guarantee that these can be duplicated.

Grades

Grades are awarded in all college, vocational, and developmental courses, as well as in certain non-credit courses. NWFSC maintains permanent records for all students registering for courses. A cumulative record of the student's grades appears on the transcript. Letter grades are assigned according to the grades.
A student has a right to a course grade that represents the instructor's professional judgment of the student's performance in the course, without personal prejudice. An instructor has a right to expect that the work presented for evaluation or submitted as classroom projects is that of the student acting alone without benefit of any aids or practices that are generally considered academically dishonest.

Grades Table

Academic Grade	General Meaning
A	Excellent
B	Good
C	Average
D	Poor/Passing
F	Failure
FA*	Failure Due to Lack of Attendance*
FN	Failure Never Attended
I	Incomplete
IP	In Progress
NG	No Grade
P	Passing
U	Unsatisfactory
V	Deferred Incomplete
W	Student Withdrew
WF	Student Withdrew Failing
WN	Withdrawn for Never Attending
X	Audit
XC	Changed to Audit After Schedule Adjustment Period

* Beginning Fall 2014, a new grade of FA (failure due to absences) has been added. NWF State College does not have an institutional attendance policy. However, students who stop attending class may receive a failing grade of FA. An FA grade is a failing grade in GPA calculations and may impact the receipt of federal aid in subsequent terms.

Grade Point Average (GPA)

The student's permanent record also contains grade point average (GPA) calculations. The student's GPA is used in determining

academic standing, graduation readiness, eligibility for the President's and Dean's Lists, and in other academically related decisions. Your semester grade point average represents the average of your grades for only one semester. Your cumulative grade point average represents the average of the grades of all courses you have taken at NWFSC. Only grades for courses at 1000 level or above are used to compute GPA for graduation. College preparatory courses are not included in GPA calculations.
To determine the grade point average, multiply the number of quality points for each grade received by the number of credit hours for that course. Then divide the total number of quality points by the total number of credit hours attempted excluding courses with W, I, and Audit grades. A GPA calculator is available on RaiderNet.
Credit hours pursued is defined as those credits in which a grade of A-F has been awarded. Grades of S, P, U, I, V, N, W, and X, do not carry grade quality points. In general, credits for these grades do not count in hours pursued. However, in certain other circumstances, such as determination of repeat enrollments, and in computation of certain specialized GPA's, credits which carry these grades may be included in the GPA computation.

Grade	Grade Quality Points
A	4
B	3
C	2
D	1
F	0

Example Course	Grade	Grade Points	Credit Hours	Quality Points
Speech	C	2	x	3
6	Algebra	C	2	x
3	6	American Literature	B	3
x	3	9	Chemistry	D
1	x	4	4	Health Science
A	4	x	2	8
Total Points	33	Total Semester Credit Hours	15	33/15=

Dean's and President's Lists

When the quality of a student's work is superior, the college is pleased to honor such work for students enrolled in all programs - Baccalaureate, Associate or Certificate programs through recognition as follows:
PRESIDENT'S LIST:
Any student with nine (9) or more college credits in the term and a term grade point average of 3.80 - 4.00 in college level courses is placed on the President's List.
DEAN'S LIST:
Any student with nine (9) or more college credits in the term and a term grade point average of 3.50 - 3.79 in college level courses is placed on the Dean's List.

Incomplete Grades

At the instructor's discretion, a grade of "I" may be given when a student is unable to complete the required work because of clearly documented extenuating circumstances and if the student has demonstrated successful completion of a significant portion of the course requirement that he/she has a reasonable chance of making a passing grade. The instructor files with the department chair, and with the student concerned, an outline of the work that must be completed, including an estimate of the student's grade standing for work already completed during the term. Work for the removal of the "I" must be completed prior to the LAST CLASS DAY in the next 16-week term immediately following except where course requirements mandate otherwise. Students completing course work to remove the "I" must do so outside the regular classroom setting. The grade will revert to an "F" on the official transcript if not removed by that time. A student will not be permitted to re-enroll in a course which he/she has an outstanding grade of "I" or for a class that has that course as a prerequisite.
In extraordinary circumstances, a deferred incomplete grade of "V" may be awarded when approved absences preclude satisfactory course completion by the end of the next 16-week term of enrollment.

Repeating Courses

Repeating a Course to Improve the Grade

If a student receives a grade of D, F, W, or U in a college credit, vocational or developmental course, he/she may repeat the course to improve the grade. Students are permitted a maximum of two enrollment attempts in such courses. A third and fourth attempt may be allowed only through an academic appeal process based on major extenuating circumstances. Any attempt to enroll in a course for a third/fourth attempt should be directed to the Registrar. On the third attempt, and any subsequent attempts, the student will be awarded the letter grade earned (A, B, C, D, F, S, U, or P) and will not be allowed to withdraw from the course. If a course withdrawal (drop) is processed prior to the close of the schedule adjustment period, or if audit status is declared prior to the end of the schedule adjustment period, the enrollment will not count as one of the attempts. Once a student has successfully completed a course (received a grade of A, B, C,) he/she will not be permitted to repeat the course. In certain special or compelling circumstances, it may be possible to re-enroll after successful completion, but advance written approval must be obtained from the Vice President of Academic Affairs. Such circumstances include, for example, NWFSC program requirements, teacher recertification, license renewal, and mandated professional development. Grades earned in this manner will not replace grades earned in prior enrollments but will appear on the transcript.
For any course repeated, whether at NWFSC or elsewhere, only credit from the last attempt will be used in the computation of the student's grade point average and for meeting program requirements. Repeating a course results in an adjusted grade point average; however, if a course is repeated after the student has earned his/her A.A. degree, the student's grade point average will not change. Students should be aware that some private colleges and universities, as well as out-of-state institutions, and some Florida public universities (depending on the student's major) may not accept the revised GPA or treat the repeated course in the same manner.

Per Florida statute 1009.285, after the second attempt in a college credit or developmental course, a student will be required to pay the full cost of instruction (approximately four times the usual matriculation fees) to repeat the course. In documented cases of financial hardship or extenuating and compelling circumstances, the full cost requirement may be appealed through the Registrar's Office. Students receiving financial aid or veterans benefits should consult with a financial aid advisor before repeating a course; benefits and aid may not be available for certain repeat enrollments.

Repeating a Course for Credit toward Graduation

Certain courses, such as those in the fine and performing arts areas, physical education, and communications areas, may be repeated for credit toward graduation. The specific courses and the number of allowable repeat enrollments are provided in the course description section of this catalog. Only those courses designated as repeatable for credit fall into this category.
When a course is repeated under these circumstances, the full cost of instruction rule is not applicable until the maximum number of creditable repeats has been reached. All grades and credits associated with the allowable number of repeats will be considered in the student's GPA and will be considered in determining the credits for program completion. Once the maximum number of enrollments has been reached, additional enrollments will be treated as specified in the previous section on course repeats and may be subject to the full cost rule.

Repeating Non-credit Courses

Courses taken through Continuing Education, PRIME Time, the Institute for Professional Development, Kids on Campus, or Adult Education courses, including ABE, GED, and ESOL, are not subject to repeat rules.

Grade Changes/Errors

If a student believes there is an inadvertent error in the recording or the computation of his/her final course grade, the student should contact the instructor or the appropriate department office immediately. If an error has occurred, an adjustment to the student's permanent record (transcript) will be made within approximately ten (10) working days. The student is responsible for reporting such concerns within thirty (30) days of the close of the term in which the grade was awarded.
If a student has documentation of extraordinary or emergency circumstances which warrant recording a course withdrawal ("W") after the usual deadline, he/she must submit a written request for such change to the Dean of Students. If an adjustment is warranted, the change will be made within approximately ten (10) days. The student is responsible for requesting such changes within thirty (30) days of the term in which the original grade was awarded.

Grade Grievances

If a student believes that he/she has not been graded fairly in a course, an appeal may be filed. The grade grievance process applies only to final course grades. Any appeal must be initiated within thirty (30) days of the date the grade was issued to the Registrar's Office. The student should first make an informal appeal to the instructor.
A student has a right to protection against the improper disclosure of information concerning grades, beliefs, or character which an instructor acquires in the course of the professional association with the student. An instructor has a right to deal with what is perceived to be academic dishonesty and such behavior may result in disciplinary action.

Academic History Grade Relief Option

A student who has been unsuccessful academically (i.e. grades of "D's" and "F's") and whose credits are ten or more years old may seek relief from the effect of those credits on his/her grade point average at NWFSC by submitting a written request to the Vice President of Academic Affairs. If the request is granted, it will apply to all credits and grades earned prior to the date specified, and the student will not be permitted to count any of those credits toward graduation or program completion. The courses and grades will remain on the student's permanent record (transcript), but will not be considered in grade point average computations at NWFSC. Financial Aid is required by federal regulation to include all credit hours attempted in calculating eligibility for federal financial aid.
A student requesting this option should be aware that the relief may not be honored by other colleges and universities; other institutions may continue to consider the older credits and grades in evaluating the student's work. Relief through this process does not excuse the student from restrictions related to repeating courses or from compliance with other applicable college policies.

Academic Standing

The college has set academic standards ranging from recognition of excellence for superior progress to discontinuance of enrollment for inadequate progress towards these standards. In determining academic progress, college credit and vocational courses are combined. The standards apply to full and part-time students. They apply to those students who are seeking a degree or award and those who are not. Students enrolled in a Limited Admission or Limited Access program should contact the appropriate department or division office for information on programmatic certification and/or professional accreditation standards as they pertain to demonstrating satisfactory academic progress as these may vary by program.

Good Standing

A student is considered in academic good standing at the college as long as the student maintains a cumulative grade-point average (GPA) detailed below:

Credit Hours Attempted	Minimum GPA Required

0.00 - 11.99	N/A
12.00 - 24.99	1.50
25.00 & Over	2.00

Not in Academic Good Standing

When students fail to achieve the 2.00 cumulative GPA, the college will place certain restrictions on their future registrations and the courses for which they may enroll. In order to return to "Academic Good Standing", a student must increase the cumulative grade point average for all work attempted to at least the level specified for "Academic Good Standing." Students "Not in Academic Good Standing" are encouraged to take advantage of the tutorial services offered in the Academic Success Center. There are three states of being while "Not in Academic Good Standing" and the following regulations apply to these states:

Academic Warning

When students fail to meet these minimum standards, they will be put on Academic Warning for the following year/semester. Students on warning will be advised to see an Academic Advisor, who will recommend that the student take advantage of our many support services, including the Academic Success Center, to help improve their performance and fulfill their academic goals. Students will be removed from Academic Warning if they have returned to good standing by bringing up their GPA to the required minimum standard.
Students will continue for a second year/semester on warning if they have successfully completed all courses attempted during the warning period, but have not yet brought their overall GPA up to the required minimum. Students will be placed on probation for the next semester if they have not returned to good standing and have not successfully completed all courses earning the minimum GPA for the year/semester while on warning.

Academic Probation

When put on Academic Probation the student will be monitored every semester and will be required to consult with an Academic Advisor to develop a mandatory prescriptive program each semester. This program may require the student to take a 50-percent reduction in course load from prior semesters, to repeat certain courses, or to take advantage of student support services such as those offered in the Academic Success Center.
Students will be removed from Academic Probation if they have returned to good standing by bringing their GPA up to the required minimum standard at the end of the semester. Students will continue for a second semester on probation if they have successfully completed all courses during the probation period but have not yet brought their overall GPA up to the required minimum.
Students will be placed on "Suspension" for the next semester if they have not returned to good standing and have not successfully completed all courses earning a the required minimum GPA for the semester on probation.

Academic Suspension

Students placed on Academic Suspension will be required to stop enrollment for one complete semester. They will be allowed to appeal a suspension based upon extraordinary, one-time events during their probationary semester that should not affect academic success in the future. Performance in developmental courses can be considered part of the appeal process. If a suspended student wishes to return, they may submit an appeal to the Registrar's Office requesting reinstatement. If a suspended student has already registered for classes, the classes will be dropped on the first day of the schedule adjustment period if the student does not complete an appeal or the appeal is denied. The appeal should explain what factors prevented the student from succeeding earlier and how those factors will no longer interfere with the student's progress and include supporting documentation. If the appeal is granted, the student also is required to meet with the advisor who initially approved the student's probation status to review and once again develop a prescriptive program before the student is allowed to register. The returning student will still be on probation and their status will be reviewed again at the end of the semester. If a student sits out a semester, then appeal to come back to school and do not improve in the semester they return, they will be suspended again and must sit out one semester. If a student makes progress but is still on Academic Suspension, The Registrar's office will allow them to keep taking classes as long as they keep making progress.
Financial Aid is required by federal regulation to include all credit hours attempted in calculating eligibility for federal financial aid.

Testing Services

ACT/SAT Testing
Registerblast
Proctor U
Professional Testing/Certification/GED

Testing Center Locations
Testing Center Hours and Contact Info
Testing Services Offered and Fees

Testing Center Locations

Northwest Florida State College offers six testing locations:
Niceville Campus
Robert L. F. Sikes Education Center (Crestview)
Fort Walton Beach Campus
Hurlburt Field Site
DeFuniak Springs Chautauqua Center
South Walton Center.

Testing Services Offered and Associated Fees

PERT - For placement into English and Math courses, current and prospective NWFSC students will need to complete the Postsecondary Education Readiness Test (PERT). This assessment is free for the first attempt. Additional attempts will incur a $10.00 fee. Students must wait 7 days between each testing attempt. There is a $30.00 test fee for all non-NWFSC test candidates. The PERT test is offered at the six locations listed above.
Proctored Exams - Make-up exams for current NWFSC students are offered free of charge. Tests are offered at the six locations listed above. It is the student's responsibility to ensure the test is received at the test location.
Proctored Exams for Non-NWFSC Students - Students currently enrolled in an institution other than NWFSC will be charged a $30.00 testing fee. Tests are offered at the six locations listed above. It is the student's responsibility to ensure the testing location has received the exam from the home institution.
CLEP (College Level Examination Program) - A student may sit for a CLEP exam to prove competency in a subject area, therefore earning credit without registering for a course. It is the student's responsibility to ensure the receiving institution accepts the CLEP credit. CLEP Exams must be registered for and paid at clep.collegeboard.org. There is an $80.00 exam fee plus a $20.00 Administration Fee to be paid to the NWFSC Testing Center. This is a free exam for military and specific military affiliations. Please see the CLEP website for additional information. Test is offered at Niceville and Hurlburt Field and can only be taken once every six months.
DSST, formerly DANTES (Defense Activity for Non-Traditional Education Support) - A student may sit for the DSST to prove competency in a subject area, therefore earning credit without registering for a course. The DSST must be registered for and paid at getcollegecredit.com. There is an $80.00 exam fee plus a $20.00 Administration Fee to be paid to the testing center. This is a free exam for military and specific military affiliations. Please see DSST website for additional information. Test is offered at Niceville and Hurlburt Field and can only be taken once every six months.
FBAT (Florida Criminal Justice Basic Abilities Test) - This assessment is used to measure an applicant's likelihood of being successful in a Law Enforcement program. Aptitudes for written expression, oral comprehension, selective attention, visualization, inductive, and deductive reasoning are determined. Candidates may complete this assessment up to three times for any program in a 12-month period. The testing fee is $35.00. Test is offered at Niceville Only.
HESI (Health and Environmental Sciences Institute) - The HESI is a computerized exam that includes up to seven sections. Admission into the NWFSC Radiography and Associates of Science in Nursing programs requires the completion of the Math, Reading Comprehension, Vocabulary and General Knowledge, Grammar, and Anatomy sections. Candidates are allowed two attempts during any one application cycle, with 30 days between attempts. Candidates for another institution will be required to verify the required sections of the HESI with that institution. The testing fee is $40.00. Test is offered at Niceville Only.
TABE (Test of Adult Basic Education) - Students seeking admission into the Dental, Fire, and Welding programs at NWFSC are required to complete TABE and will be charged a $30.00 for for this assessment. TABE measures a combination of skills in Reading, Language, Language Mechanics, Spelling, Vocabulary, Writing, Applied Math, and Math Computation. Combinations will vary based on program admission requirements. Those completing TABE as an exit assessment will not be charged an additional

fee. All other programs and test candidates will be charged $30.00 per attempt. Candidates may retake TABE immediately after first attempt. However, after two attempts, candidates must wait 30 days prior to retesting. Test is offered at Niceville only.

Registerblast

If testing at the Niceville Campus, students should visit registerblast.com/nwfsc/exam to register for exams. This link is also found on the Testing Center webpage. RegisterBlast will allow test candidates to schedule and pay for exams. A $3.50 convenience fee is applied to all registrations requiring payment. For all other locations, appointments made via phone are necessary.

Proctor U

NWFSC requires that online courses include a proctored element. Students have three options for completing the proctored element: (1) face to face on the Niceville campus, (2) face to face at a remote proctoring site, or (3) online using ProctorU. Distance Learning students are provided the opportunity to test through Proctor U. Students should log on to http://www.proctoru.com/howitworks.php to register and create an appointment. This service requires a web cam and microphone and the test candidate will be monitored through the computer screen. Tests should be scheduled at least 3 days in advance and there is an associated proctoring fee, see the Testing Center webpage for details.

Professional Testing/Certification and GED Services

The Niceville Campus houses a certified Prometric and Pearson Vue testing center in which to complete professional certifications and the GED.
Prometric (Information Technology Certifications) - Designed for software and technology professionals, exams offered at NWFSC include: Microsoft Certified Systems Engineer (MCSE) and Microsoft Certified Systems Administrator (MCSA), UNIX, LINUX, A+, Network +, CISCO Certified Network Associate (CCNA), Certified Novell Administrator (CNA) and Certified Novell Engineer (CNE). For a comprehensive list, examinees should visit www.prometric.com.
Pearson VUE - Delivers certification and licensure tests through NWFSC's test center in the areas of Academic/Admissions, Construction Trades, UST & Inspectors, Driving Test, Employment/HR/Management Safety, Financial Services, Health/Medicine/Nursing/Pharmacy, Information Technology, Insurance, Legal Services, Real Estate/Appraisers/Mortgage and Loan, and State Regulated Certifications and Li censures. This is not a comprehensive list and examinees should visit www.pearsonvue.com.
Certiport - NWFSC offers the official Microsoft Office Specialist certification for desktop productivity in the following areas: Word, Excel, Outlook, Power Point, Access, and Project. The IC3 training and certification program covers a broad range of computing knowledge and skills that proves competency in: Computing Fundamentals, Key Applications, and Living Online. For additional information, visit www.certiport.com.

ACT/SAT Testing

The ACT and SAT are offered at the Niceville Campus on dates specified on the respective websites.

Testing Center Hours and Contact Information

Generally, testing locations are open Monday - Friday. For current testing hours, contact information or questions, go to the Testing Center webpage.

Welcome from the President

Welcome to Northwest Florida State College! At NWFSC, our mission is our students – helping each person who comes through our doors to achieve their individual goals for education and career success.

In fact, our official mission statement begins with "Northwest Florida State College Improves Lives." Those aren't empty words - in the college's 50 years of serving the region, we've positively impacted the lives of more than 352,046 students in various credit and non-credit programs. Additionally, more than 37,046 individuals have earned degrees or certificates from NWFSC.

The college is committed to providing you with Opportunity - meeting your educational needs at your level of ability and to helping you achieve Success - preparing you for the future. We offer a variety of learning environments - from our seven convenient campus and center locations to our eCampus online opportunities - that are specifically designed to help you earn your college degree, upgrade your career skills or prepare for successful transfer to the university level.

NWFSC offers educational opportunities from the GED high school equivalent diploma to innovative Bachelor's degrees - all at tuition rates that are among the lowest in Florida and in the country. NWFSC is simply your best choice for higher education. I encourage you to tour our facilities, talk with an academic advisor and learn more about how NWFSC can make a positive impact on your life and future.

Improve your life ... go Northwest!

Ty Handy, Northwest Florida State College President

Where To Go For Assistance A to Z

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A Academic Assistance Academic Success Center Niceville Campus, Activities Center, (850) 729-5389 Web - http://www.nwfsc.edu/Academics/AcademicSupport/ASC.cfm

Accessibility and Disability Support Services Americans with Disability Act (ADA) Coordinators Students: Disability Support Services Niceville Campus, Student Services Center, (850) 729-6079 Employees and General Public Director of Human Resources and Equity Coordinator, Niceville Campus, Administration Bldg (850) 729-5365

Academic Advising Niceville Campus, Student Services Center, (850) 729-5234

Admissions Niceville Campus, Student Services Center, (850) 729-4901

Adult Education and Literacy Adult Basic Education, GED, English for Speakers of Other Languages (ESOL) Niceville Campus, Student Services Center, (850) 729-5387

Alumni Association Niceville Campus, Administration Bldg., (850) 729-5357

AmeriCorps/Service Learning: NWF Environmental Stewards, South Walton Center, (850) 729-6037

Athletics Director of Athletics Niceville Campus, Bldg. T, (850) 729-5379 Web - http://www.nwfraiders.com/landing/index

B Baccalaureate Programs BAS – Bachelor of Applied Science Programs, Niceville Campus, Bldg. P, Room 121, (850) 729-4900 BSE – Bachelor of Science Teacher Education Programs, Niceville Campus, Bldg. Q, Room 140, (850) 729-6440 BSE – Bachelor of Science Early Childhood Education, Niceville Campus, Bldg. M, (850) 729-5341 BSN – Bachelor of Science in Nursing, Niceville Campus, Bldg. E, (850) 729-6444 Web - www.nwfsc.edu/Bachelor

Books & Classroom Supplies Barnes and Noble College Store Fort Walton Beach Campus, Bldg. 2, (850) 863-6511 Niceville Campus, Activities Center, (850) 729-5384 Web - http://nwfsc.bncollege.com

C Campus Security "9-1-1" At any location, 911 or "9+911" Niceville Campus Security, (850) 582-9119 or 911 Fort Walton Beach Campus Security, (850) 582-9112 or 911 Crestview Center, (850) 826-1895 or 911 Chautauqua Center, DeFuniak Springs, 911 Hurlburt (night monitor), (850) 200-4190 or 911 Eglin, Security Forces, (850) 882-2502 South Walton Center, 911

Career Information Career Center, Niceville Campus, Student Services Center, (850) 729-5227 Chautauqua Center/DeFuniak Springs, Bldg. 2, Room 204, (850) 892-8100 Web - http://www.nwfsc.edu/Students/StudentAffairs/CareerServices/

Child Care Mary Lou O' Connor Child Development and Education Center Niceville Campus, Bldg. M, (850) 729-5386

Clubs Student Life Niceville Campus, Activities Center, (850) 729-5348

Collegiate High School Niceville Campus, Bldg. D, (850) 729-4949 Web - www.nwfcollegiatehigh.org

Computer and Learning Labs Chautauqua Center, DeFuniak Springs Skills Lab, Room 202, (850) 729-5344 or (850) 892-8100 Fort Walton Beach Campus Computer Lab, Bldg. 7, Room 752, (850) 863-6530 English Tutor, Bldg. 4, Room 42, (850) 863-6520 Math Lab, Bldg. 7, Room 702, (850) 863-6520

Niceville Campus Academic Success Center, Activities Center, (850) 729-5389 Advanced Technical & Design Labs, Bldg. B, (850) 729-5216 CAD Labs, Rooms 100 & 107 CISCO Lab, Room 105 Microsoft Labs, Rooms 103 & 110 Math Lab, Bldg. L, Room 131, (850) 729-5377 Science Lab, S118, (850) 729-5376

Robert L. F. Sikes Education Center, Crestview Computer Lab, Rooms 109 & 303, (850) 729-5346 or (850) 689-7911
South Walton Center Computer Lab, Room 123, (850) 200-4160
Academic Success Center: - asctutor@nwfsc.edu
Web - http://www.nwfsc.edu/Academics/LearningSupport/
Continuing Education (Kids on Campus and PRIME Time) Continuing Education, Niceville Campus, Student Services Center, (850) 729-6085
Costa Leadership Institute Niceville Campus, Student Services Center, (850) 729-6880
Criminal Justice Training Center Public Safety Division, Niceville Campus, Bldg. F, (850) 729-5378
D Dual Enrollment Niceville Campus, Dual Enrollment, Student Services Center, (850) 729-5205 Web - http://www.nwfsc.edu/Students/Enrollment/Admissions/Dual/
E eCampus/Distance Learning Niceville Campus, LRC Bldg., Room 214, (850) 729-6464 Web - eCampus.nwfsc.edu
Email: Students, Faculty and Staff IT Help Desk (850) 729-5396 Web IT Help Desk - helpdesk@nwfsc.edu
Enrollment Niceville Campus, Student Services Center, (850) 729-4901 Web - https://raidernet.nwfsc.edu
F Financial Aid Niceville Campus, Student Services Center, (850) 729-5370 Web - www.nwfsc.edu Financial Aid Email: - financialaid@nwfsc.edu
Foundation Niceville Campus, Bldg. A, (850) 729-5357
H Health Programs Nursing (ASN), Niceville Campus, Bldg. E, (850) 729-6400
Nursing (BSN), Medical Coding/Billing, Health Services Management, Dental Assisting & Radiography, Niceville Campus, Bldg. E (850) 729-6444
I International Student Affairs Niceville Campus, Student Services Center, (850) 729-5319
IT Helpdesk Niceville Campus, R Bldg., (850) 729-5396, helpdesk@nwfsc.edu
L Libraries (Learning Resource Centers) Niceville Campus, (850) 729-5318 Fort Walton Beach Campus, (850) 863-6578 Web - lrc.nwfsc.edu Ask-a-Librarian - lrc.nwfsc.edu/askalibrarian.cfm
Lost & Found Niceville Campus, Student Life, Activities Center, (850) 729-5348 Fort Walton Beach Campus, Bldg. 1 (850) 863-6504
O Ombudsman Student Life Niceville Campus, Activities Center, (850) 729-5277 Email - ombudsman@nwfsc.edu
Orientation Student Life, Niceville Campus, Activities Center, (850) 729-5277 Web - www.nwfsc.edu/orientation
P Parking Permits Niceville Campus, Student Life, Activities Center, (850) 729-5348 Other campuses and centers see General Information
Public Relations & Marketing Office of Marketing/Public Relations, Niceville Campus, Bldg. A, (850) 729-5362
R RaiderCard Student Life, Niceville Campus, Activities Center, (850) 729-5348 Fort Walton Beach, Bldg. 1, (850) 863-6504
Reserving College Facilities Niceville Campus, Student Services Center, (850) 729-5366
ROTC Niceville Campus, Bldg. T, (850) 729-6022
S Scholarships Financial Aid Office Niceville Campus, Bldg. Student Services Center (850) 729-5370 Foundation, Niceville Campus, Bldg. A (850) 729-5357 Web - www.nwfsc.edu/financialaid or www.nwfscfoundation.org
Student Grievances/Harassment Dean of Students, Niceville Campus, Bldg. Student Services Center, (850) 729-5379
Student Records Niceville Campus, Student Services Center, (850) 729-4901
Student Work Career Center, Niceville Campus, Student Services Center, (850) 729-5227 Financial Aid, Niceville Campus, Bldg. Student Services Center, (850) 729-5370
T Telephone Device for the Deaf (TDD) #'s: Voice, 711 or 1-800-955-8770 TDD, 711 or 1-800-955-8771
Technical/Professional Education Niceville Campus, Bldg. A, (850) 729-5363
Testing Testing Center, Niceville Campus, Student Services Center, (850) 729-6016 Other campuses and centers see General Information Web - http://www.nwfsc.edu/Students/Enrollment/TestingCenter/
Tours College Life & Campus Tours, Bldg. Student Services Center, (850) 729-6922
Transcripts Niceville Campus, Student Services Center, (850) 729-4901 Unofficial - Raidernet Request Official Transcripts: - www.nwfsc.edu Transcript requests may also be submitted at all college locations.
Transient Students Niceville Campus, Admissions, Student Services Center, (850) 729-4901 Web (for FL public institutions) - www.flvc.org Transient student forms may be obtained and submitted at all college locations.
V Veteran's Affairs Niceville Campus, Financial Aid, Student Services Center, (850) 729-5375 Web - http://www.nwfsc.edu/Students/PayingforCollege/FinancialAid/veterans.cfm

Bachelor Degrees

BAS Program Information and Graduation Requirements
BSE Program Information and Graduation Requirements
BSN Program Information and Graduation Requirements

AS Degrees, Certificates & ATD's

Career Paths
AS Degree Program Information
AS Degree Graduation Requirements
Certificate and ATD Program Information
Certificate and ATD Graduation Requirements

AA Degree

AA Degree Program Requirements
AA Degree General Education Requirements
AA Degree Graduation Requirements
Transferring to a Four-Year Institution in Florida
Foreign Language Requirements for Universities
Student Bill of Rights

All Programs

Nursing (BSN)

Admission Program Objective Code S100 State CIP Code 1105138012
The baccalaureate nursing program at Northwest Florida State College is accredited by the Commission on Collegiate Nursing Education, One DuPont Circle, NW, Suite 530, Washington DC 20036, (202)887-6791. For more information regarding disclosure, please review pages 15-16 of the CCNE Procedures for Accreditation of Baccalaureate and Graduate Degree Nursing Programs (http://www.aacn.nche.edu/ccne-accreditation/Procedures.pdf).
The program is an R.N. to B.S.N. degree career ladder and is open to applicants who currently hold a valid Florida Registered Nursing license and have completed an accredited ADN or diploma program. The program can be completed in three to four semesters. Program content for the B.S.N. program meets those specified in Florida's A.S. to B.S. Articulation Manual. All theory courses are taught on-line from the NWF State College Niceville Campus and clinical instruction targets the specific needs of Okaloosa and Walton healthcare providers.

Lower Division Courses

General Education Course Requirements

BSC 1085C - Anatomy and Physiology I

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

____ ____ - General Education Physical Science 4 Credit Hours

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

____ ____ - General Education Math 3 Credit Hours

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of "C" or better.

PSY 2012 - Psychology or

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

STA 2023 - Statistics

____ ____ - General Education Humanities (SATC) 6 Credit Hours

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a "C" or better, or appropriate placement score.

SYG 2000 - Sociology

____ ____ - GE Social Science/History/Government 3 Credit Hours

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total General Education Credits: 36

B.S.N. Common Prerequisite Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as

well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

____ ____ CHM, BSC, BCH, PCB, PHY Course (CHM, PHY may be used for GE if 4 hours) 3 Credit Hours
This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

Total Common Prerequisite Courses: 13

Foreign Language

Total Foreign Language Credits: 8

Lower Division Nursing and Other Courses

Total Lower Division Nursing and Other Courses: 10-44

Total Lower Division Credits: 76

Upper Division Courses

Core Courses

NUR 3067C - Health Assessment

This course is designed to develop the student's knowledge for obtaining and recording a systematic, comprehensive health history, psychosocial assessment, and physical examination of the adult. The course involves the synthesis of nursing, biologic, psychologic, and sociocultural knowledge and theories as they apply to the findings obtained in the comprehensive health assessment of clients of various ages. During the fieldwork experience, emphasis will be placed on collection of a database through physical assessment, history taking and interviewing.

Credit Hour(s): 3 Credit Hours When Offered: (Fall and Summer) Prerequisite(s):
Admission to the BSN program and meets all enrollment conditions.

NUR 3071 - Writing for Success in Nursing

This course Is designed to develop the student’s knowledge for writing at the upper division nursing level. The course includes information regarding use of APA format and scholarly writing resources.

Credit Hour(s): 1 Credit Hour When Offered: (Fall and Spring) Prerequisite(s):
Student must be a Registered Nurse to take this course.

NUR 3080 - Dimensions of Baccalaureate Nursing Practice

This course will provide Registered Nurses, who are returning to school to earn a Baccalaureate degree, an opportunity to advance professional practice concepts. As designed, the course engages the student intellectually in an ongoing professional dialogue and

journey with peers, colleagues, and instructors that serves to broaden the student's professional development and builds on preexisting knowledge and experiences. The course curriculum is written for adult learners with the characteristics of self-direction, prior experience, applicability to practice, and motivation to meet the challenge to expand their knowledge base and to utilize advanced critical thinking skills.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

Admission to the BSN program and meets all enrollment conditions.l

NUR 3767 - Nursing Care of Complex Clients

This course assists the RN to BSN student in the assimilation of pathophysiology, assessment, and pharmacological nursing concepts with variety complex client issues. This course provides expanded concepts related to nursing care for individuals experiencing complex alterations in health problems as they progress through a variety of healthcare delivery systems and environments.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

NUR 3067C , NUR 3080 .

NUR 3837 - Health Care Issues

NUR ____ - Upper Division Nursing Elective (See Below) 3 Credit Hours

This course provides a forum for the exploration and evaluation of concerns germane to contemporary nursing. The focus of this course is on the nursing profession and current major issues and problems that concern it. Social forces influencing changes in the nursing profession are analyzed in terms of historical antecedents and their current manifestations. Recently passed, and pending legislature at both the national and state levels is emphasized.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):

Current RN Licensure.

NUR 3955 - Portfolio I

This course will provide RN to BSN students an opportunity to develop an electronic professional portfolio to express one's professional nursing expertise and proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):

Admission to the BSN program and meets all enrollment conditions.

NUR 4165 - Evidence-Based Practice: Incorporating Nursing Research

This course is designed to provide the RN to BSN student with an introduction to the research process and evidence based practice. The purpose of the course is to stimulate interest in nursing research; to enable students to understand and judge the usefulness of scientific findings; and to develop an understanding of how clinical proficiency is combined with experimental proof to produce nursing practices based upon evidence. An on-line teaching method is used with optional workshops available to students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

STA 2023 .

NUR 4615C - Family and Community Health

The Family and Community Health Nursing course is designed to facilitate the conceptualizing of family, population groups, and community as units of care from diverse cultures, ethnic, and social backgrounds. The student is provided a fieldwork opportunity to assess the health needs of selected families and groups in the community setting with selected health promotion, risk reduction, and disease prevention. The nursing process is used to examine multiple influences impacting life-course experiences of families and communities to enhance functioning.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 3067C , NUR 3080 , admission to the BSN program and completion of all General Education requirements.

NUR 4827C - Nursing Leadership and Management

This course provides students with an evidence-based study of leadership, collaboration, and coordination in healthcare settings. Students develop an evidence based paper to deal with key leadership and management issues related to professional goals. Nursing leadership and management fieldwork focuses on the roles and functions of the professional nurse in these roles. Issues associated with healthcare delivery are explored. Fieldwork provides an opportunity to plan, implement and evaluate a change in the practice of nursing.

Credit Hour(s): 5 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

NUR 3080 ,NUR 4165 , NUR 3067C , NUR 4615C .

NUR 4956 - Portfolio II

This course will provide students an opportunity to complete and evaluate their electronic professional portfolio to express their

professional nursing expertise and proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring, Summer) Prerequisite(s):
NUR 3955 , NUR 3080 ; Pre or Corequisite: NUR 4827C .

Total Upper Division Nursing Credits: 30

Upper Division Nursing Electives

NSP 3640 - Nursing Care of Military and Veteran Populations

This course is designed to identify the unique healthcare needs of military and veteran populations in the United States in order to prepare students and practicing nurses to develop competence in designing nursing interventions within civilian and government agencies in which military members and veterans seek healthcare. In accordance with the ANA's pledge (2012) to raise awareness of the unique conditions and needs of military veterans and their families, this course supports the Joining Forces initiative to further nursing training to include specialized topics such as traumatic brain injury, posttraumatic stress disorder, trauma rehabilitation, and understanding the military and veteran's healthcare delivery system.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

NSP 4275 - Introduction to Critical Care Nursing

This course examines the needs of the critically ill client. As part of the human experience, the integrity of the individual and family may be disrupted by a critical illness. During such time, the critical care nurse assists the individual and family to restore life processes to a state of dynamic equilibrium. This course emphasizes the involvement through use of scientific rationale and application of the nursing process in providing care to the individual client and family. Critical care concepts and skills for promoting client and family well-being are stressed.

Credit Hour(s): 3 Credit Hours When Offered: (Summer)

NSP 4869 - The Professional Nurse Manager and Leader

This course outlines the roles and functions of nurses in executive practice using the competencies identified by the American Organization of Nurse Executives (AONE). Successful nurse leaders and managers exercise complex leadership responsibilities that directly affect the quality of patient and family care in today's multifaceted healthcare management systems. This course will address competencies in communication, knowledge of the healthcare environment, business skills and principles, and professionalism. The course content also provides a review of the material covered in the Certified Nurse Manager and Leader examination conducted by the American Organization of Nurse Executives Credentialing Center that is available to BSN prepared Registered Nurses.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
Student must be a Registered Nurse to take this course.

NUR 3678 - Nursing Care of Vulnerable Populations

Caring for the vulnerable members of society is a function nurses perform without regard for their own ambitions, personal safety, and financial security. This course is designed to pull together material from different cultures and at risk groups of individuals considered vulnerable populations. Key concepts will be discussed that will provide a basic structure for caring for the vulnerable, the relevance of nursing theories to vulnerable populations, nursing research showing the kinds of phenomena nurses study, and many ideas about learning to work with and advocate for vulnerable individuals.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

NUR 3826 - Nursing Ethics

This course provides an in-depth exploration of ethical principles and moral reasoning as the foundation of nursing practice. The ANA Code of Ethics will be used as a framework for examining current issues in healthcare delivery across the age span from reproductive issues to end-of-life care.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Must be an RN or ASN student.

NUR 4125 - Clinical Pathophysiology

This course examines the underlying pathogenesis, evolution, clinical manifestations, and complications of common disease processes across the life span. Normal and abnormal cellular alterations as well as specific body system alterations are covered in depth. Evidenced-based therapeutic clinical treatment modalities and pharmacological interventions are examined in an effort to

provide the participants with a comprehensive clinical overview of disease alterations and clinical treatment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
Must be an RN.

SPN 3036 - Spanish for Health Care Providers

Spanish for Health Care Providers is designed for individuals majoring in nursing or working in health-related areas. The course focuses on vocabulary needed for the healthcare workplace, with grammar taught as a task-based practical skill. Students will learn phrases used to complete health assessments which include conducting interviews, filling out forms, writing reports, and reading and understanding medical articles and brochures. Prevalent disease processes will be discussed as well as cultural practices that affect health care, specifically the health care of Spanish-speaking patients. This course does not fulfill any part of the Florida state language requirements.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Portfolio

Total Portfolio Credits: 14

Total Upper Division Credits: 44

Total Program Credits Required: 120

Management and Supervision - Health Care Management (BAS)

Admission Program of Study Code R200K State CIP Code 1105202991
See the BAS Management and Supervision 2014-2015 Flowchart.

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative

organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Healthcare Management

HSA 3110 - Health Care Organization and Management

This course focuses on the structure and management of health care organizations, and the fundamental issues facing the U.S. health care system. Key topics include health status, the organization of health services, manpower, public health, financing, facilities, utilization, quality, regulation, and national health policy.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

HSA 3111 - Introduction to Health Care Management

This course studies the administration, organization and delivery of health care in the United States. Topics to be examined include health care leadership, management, strategy, performance improvement, information technology, insurance, financial and human resources management, as well as ethical and legal concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

HSA 4191 - Health Information Systems

This course focuses on the theories, concepts and principles of health information systems and development of critical thinking skills for use in practice/working in health care informatics. Current trends and issues in using, designing, and managing heath care information systems will be examined. Students, applying evidence-based knowledge, will analyze the design and implementation of health care information systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

HSA 4922 - Capstone: Health Care Management

This course integrates the information, skills, and abilities provided throughout the Health Administration Program in a capstone project. Students complete a project that demonstrates excellence by applying the knowledge gained from the core courses and materials studied throughout the program. Successful completion of the course requires demonstration of the achievement of program objectives and learning outcomes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Total Technical Electives Course Requirements: 18

Total Technical Electives Course Requirements: 18

Total Upper Division Courses Requirements**: 60

Total Upper Division Courses Requirements**: 60

Required Courses for the Emphasis in Healthcare Management

HSA 3110 - Health Care Organization and Management

This course focuses on the structure and management of health care organizations, and the fundamental issues facing the U.S. health care system. Key topics include health status, the organization of health services, manpower, public health, financing, facilities, utilization, quality, regulation, and national health policy.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

HSA 3111 - Introduction to Health Care Management

This course studies the administration, organization and delivery of health care in the United States. Topics to be examined include health care leadership, management, strategy, performance improvement, information technology, insurance, financial and human resources management, as well as ethical and legal concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

HSA 4191 - Health Information Systems

This course focuses on the theories, concepts and principles of health information systems and development of critical thinking skills for use in practice/working in health care informatics. Current trends and issues in using, designing, and managing heath care information systems will be examined. Students, applying evidence-based knowledge, will analyze the design and implementation of health care information systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

HSA 4922 - Capstone: Health Care Management

This course integrates the information, skills, and abilities provided throughout the Health Administration Program in a capstone project. Students complete a project that demonstrates excellence by applying the knowledge gained from the core courses and materials studied throughout the program. Successful completion of the course requires demonstration of the achievement of program objectives and learning outcomes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP
CTS
ECO
GEB
GRA
HSA
ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN
MAR
PAD
STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Total Technical Electives Course Requirements: 18

Total Technical Electives Course Requirements: 18

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Management and Supervision - Human Resources Management (BAS)

Admission Program of Study Code R200E State CIP Code 1105202991
See the BAS Management and Supervision 2014-2015 Flowchart.

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

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Total Core Requirements: 30

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

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A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

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Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP
CTS
ECO
GEB
GRA
HSA
ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN
MAR
PAD
STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Total Technical Elective Course Requirements: 18

Total Technical Elective Course Requirements: 18

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Total Technical Elective Course Requirements: 18

Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and

design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

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ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Total Technical Elective Course Requirements: 18

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Total Technical Elective Course Requirements: 18

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s): upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAR 4333 - Marketing Strategy
This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions
An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation
This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management
Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits
An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
upper division standing and MAN 3310 .

MAN 3350 - Training and Development
Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide

training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

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Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

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Total Core Requirements: 30

Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP
CTS
ECO
GEB
GRA
HSA
ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN
MAR
PAD
STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Total Technical Elective Course Requirements: 18

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Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and

design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Total Technical Elective Course Requirements: 18

Total Technical Elective Course Requirements: 18

Total Technical Elective Course Requirements: 18

Total Technical Elective Course Requirements: 18

Total Technical Elective Course Requirements: 18

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s): upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAR 4333 - Marketing Strategy
This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions
An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation
This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Human Resources Management

MAN 3310 - Issues in Human Resource Management
Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits
An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
upper division standing and MAN 3310 .

MAN 3350 - Training and Development
Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide

training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3213 .

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Management and Supervision - Public Service Management (BAS)

Admission Program of Study Code R200G State CIP Code 1105202991
See the BAS Management and Supervision 2014-2015 Flowchart.

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Public Service Management

PAD 3003 - Public Service Operations

An introduction to public administration and policy in America. This course is designed to provide undergraduate students a basic understanding and appreciation of the administration of the public sector. It is intended to provide an overview of public administration for students interested in public service and for students, who as good citizens, want an appreciation of the complexities of public management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 3882 - Issues in Public Service Administration

This course focuses on current issues and trends in the field of public service administration. The course is structured to introduce management and administrative topics in public service, examine the implications to the field, and reformulate recommendations. This course will begin developing skills in project design and presentation. This course will enhance critical thinking skills.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 3820 - Public Safety System Integration

This course compares and contrasts the various components of the public safety sector. The course examines the working relationship between public safety organizations and the effectiveness of the various service delilvery models.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

PAD 4878 - Capstone: Public Service

This course provides an opportunity for the student to complete a professional project and apply information and skills studied in core and concentration program courses under the direction of the professor. Successful completion of the course requires demonstration of achievement of the program's learning outcomes. This course should be completed in the last term before graduation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Public Service Management

PAD 3003 - Public Service Operations

An introduction to public administration and policy in America. This course is designed to provide undergraduate students a basic understanding and appreciation of the administration of the public sector. It is intended to provide an overview of public administration for students interested in public service and for students, who as good citizens, want an appreciation of the complexities of public management.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

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This course compares and contrasts the various components of the public safety sector. The course examines the working relationship between public safety organizations and the effectiveness of the various service delilvery models.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

PAD 4878 - Capstone: Public Service

This course provides an opportunity for the student to complete a professional project and apply information and skills studied in core and concentration program courses under the direction of the professor. Successful completion of the course requires demonstration of achievement of the program's learning outcomes. This course should be completed in the last term before graduation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

Total Emphasis Requirements: 12

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Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

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Required Courses for the Emphasis in Public Service Management

PAD 3003 - Public Service Operations

An introduction to public administration and policy in America. This course is designed to provide undergraduate students a basic understanding and appreciation of the administration of the public sector. It is intended to provide an overview of public administration for students interested in public service and for students, who as good citizens, want an appreciation of the complexities of public management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 3882 - Issues in Public Service Administration

This course focuses on current issues and trends in the field of public service administration. The course is structured to introduce management and administrative topics in public service, examine the implications to the field, and reformulate recommendations. This course will begin developing skills in project design and presentation. This course will enhance critical thinking skills.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 3820 - Public Safety System Integration

This course compares and contrasts the various components of the public safety sector. The course examines the working relationship between public safety organizations and the effectiveness of the various service delilvery models.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

PAD 4878 - Capstone: Public Service

This course provides an opportunity for the student to complete a professional project and apply information and skills studied in core and concentration program courses under the direction of the professor. Successful completion of the course requires demonstration of achievement of the program's learning outcomes. This course should be completed in the last term before graduation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

Total Emphasis Requirements: 12

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Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Public Service Management

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

Total Emphasis Requirements: 12

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Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

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CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

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PAD

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and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

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Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Public Service Management

PAD 3003 - Public Service Operations

An introduction to public administration and policy in America. This course is designed to provide undergraduate students a basic understanding and appreciation of the administration of the public sector. It is intended to provide an overview of public administration for students interested in public service and for students, who as good citizens, want an appreciation of the complexities of public management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
upper division standing.

PAD 3882 - Issues in Public Service Administration

This course focuses on current issues and trends in the field of public service administration. The course is structured to introduce management and administrative topics in public service, examine the implications to the field, and reformulate recommendations. This course will begin developing skills in project design and presentation. This course will enhance critical thinking skills.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
upper division standing.

PAD 3820 - Public Safety System Integration

This course compares and contrasts the various components of the public safety sector. The course examines the working relationship between public safety organizations and the effectiveness of the various service delilvery models.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

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core and concentration program courses under the direction of the professor. Successful completion of the course requires demonstration of achievement of the program's learning outcomes. This course should be completed in the last term before graduation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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Total Emphasis Requirements: 12

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Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL
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Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

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and/or other preapproved courses.
This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

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PAD 3003 - Public Service Operations

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Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
upper division standing.

PAD 3882 - Issues in Public Service Administration

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Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
upper division standing.

PAD 3820 - Public Safety System Integration

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Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

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Required Courses for the Emphasis in Public Service Management

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An introduction to public administration and policy in America. This course is designed to provide undergraduate students a basic understanding and appreciation of the administration of the public sector. It is intended to provide an overview of public administration for students interested in public service and for students, who as good citizens, want an appreciation of the complexities of public management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 3882 - Issues in Public Service Administration

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Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 3820 - Public Safety System Integration

This course compares and contrasts the various components of the public safety sector. The course examines the working relationship between public safety organizations and the effectiveness of the various service delilvery models.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

PAD 4878 - Capstone: Public Service

This course provides an opportunity for the student to complete a professional project and apply information and skills studied in core and concentration program courses under the direction of the professor. Successful completion of the course requires demonstration of achievement of the program's learning outcomes. This course should be completed in the last term before graduation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

Total Emphasis Requirements: 12

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Total Upper Division Credits Required**: 60

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Technical Electives**

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Credit Hour(s): 3 Credit Hours When Offered: (Fall)

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Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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GEB
GRA
HSA
ISM
A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAR
PAD
STA
and/or other preapproved courses.
This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

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Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

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ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

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and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

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Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Public Service Management

PAD 3003 - Public Service Operations

An introduction to public administration and policy in America. This course is designed to provide undergraduate students a basic understanding and appreciation of the administration of the public sector. It is intended to provide an overview of public administration for students interested in public service and for students, who as good citizens, want an appreciation of the complexities of public management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 3882 - Issues in Public Service Administration

This course focuses on current issues and trends in the field of public service administration. The course is structured to introduce management and administrative topics in public service, examine the implications to the field, and reformulate recommendations. This course will begin developing skills in project design and presentation. This course will enhance critical thinking skills.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 3820 - Public Safety System Integration

This course compares and contrasts the various components of the public safety sector. The course examines the working relationship between public safety organizations and the effectiveness of the various service delilvery models.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

PAD 4878 - Capstone: Public Service

This course provides an opportunity for the student to complete a professional project and apply information and skills studied in core and concentration program courses under the direction of the professor. Successful completion of the course requires demonstration of achievement of the program's learning outcomes. This course should be completed in the last term before graduation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Upper Division Credits Required**: 60

Total Upper Division Credits Required**: 60

Total Upper Division Credits Required**: 60

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAR

PAD

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and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

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Technical Electives Course Requirements: 18

Management and Supervision - Supervision (BAS)

Admission Program of Study Code R200J State CIP Code 1105202991
See the BAS Management and Supervision 2014-2015 Flowchart.

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Supervision

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Upper division standing and MAN 3052 .

MAN 4940 - Capstone: Supervision

This capstone course will build upon and integrate the primary management skills and concepts introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge. This course will also cover basic entrepreneurial principles, which will be integrated throughout the student-led projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining core and emphasis business courses.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3903 - Operations Research

Operations Research is a science of modeling and optimization. It allows to model real-world problems by using mathematics, statistics and computers. It provides us the tools and theories to solve real-world problems by finding the optimal solutions to models subject to constraints of time, labor, resource, materials and business rules. With Operations Research, people make intelligent decisions to develop and manage their processes and businesses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing, STA 2023 , MAC 1140

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Supervision

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Upper division standing and MAN 3052 .

MAN 4940 - Capstone: Supervision

This capstone course will build upon and integrate the primary management skills and concepts introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge. This course will also cover basic entrepreneurial principles, which will be integrated throughout the student-led projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining core and emphasis business courses.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3903 - Operations Research

Operations Research is a science of modeling and optimization. It allows to model real-world problems by using mathematics, statistics and computers. It provides us the tools and theories to solve real-world problems by finding the optimal solutions to models subject to constraints of time, labor, resource, materials and business rules. With Operations Research, people make intelligent decisions to develop and manage their processes and businesses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing, STA 2023 , MAC 1140

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who

have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization

objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Supervision

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Upper division standing and MAN 3052 .

MAN 4940 - Capstone: Supervision

This capstone course will build upon and integrate the primary management skills and concepts introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge. This course will also cover basic entrepreneurial principles, which will be integrated throughout the student-led projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining core and emphasis business courses.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3903 - Operations Research

Operations Research is a science of modeling and optimization. It allows to model real-world problems by using mathematics, statistics and computers. It provides us the tools and theories to solve real-world problems by finding the optimal solutions to models subject to constraints of time, labor, resource, materials and business rules. With Operations Research, people make intelligent decisions to develop and manage their processes and businesses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing, STA 2023 , MAC 1140

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

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and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Supervision

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Upper division standing and MAN 3052 .

MAN 4940 - Capstone: Supervision

This capstone course will build upon and integrate the primary management skills and concepts introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge. This course will also cover basic entrepreneurial principles, which will be integrated throughout the student-led projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining core and emphasis business courses.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3903 - Operations Research

Operations Research is a science of modeling and optimization. It allows to model real-world problems by using mathematics, statistics and computers. It provides us the tools and theories to solve real-world problems by finding the optimal solutions to models subject to constraints of time, labor, resource, materials and business rules. With Operations Research, people make intelligent decisions to develop and manage their processes and businesses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing, STA 2023 , MAC 1140

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Supervision

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Upper division standing and MAN 3052 .

MAN 4940 - Capstone: Supervision

This capstone course will build upon and integrate the primary management skills and concepts introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge. This course will also cover basic entrepreneurial principles, which will be integrated throughout the student-led projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining core and emphasis business courses.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3903 - Operations Research

Operations Research is a science of modeling and optimization. It allows to model real-world problems by using mathematics, statistics and computers. It provides us the tools and theories to solve real-world problems by finding the optimal solutions to models subject to constraints of time, labor, resource, materials and business rules. With Operations Research, people make intelligent decisions to develop and manage their processes and businesses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing, STA 2023 , MAC 1140

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

ISM

HSA

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.
This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Supervision

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Upper division standing and MAN 3052 .

MAN 4940 - Capstone: Supervision

This capstone course will build upon and integrate the primary management skills and concepts introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge. This course will also cover basic entrepreneurial principles, which will be integrated throughout the student-led projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining core and emphasis business courses.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3903 - Operations Research

Operations Research is a science of modeling and optimization. It allows to model real-world problems by using mathematics, statistics and computers. It provides us the tools and theories to solve real-world problems by finding the optimal solutions to

models subject to constraints of time, labor, resource, materials and business rules. With Operations Research, people make intelligent decisions to develop and manage their processes and businesses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing, STA 2023 , MAC 1140

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Project Management - Acquisitions (BAS)

Admission Program of Study Code R100C State CIP Code 1105202021
See the BAS Project Management 2014-2015 Flowchart.

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice
This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business
An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management
This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices
This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL
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Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN
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and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar

This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore

the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management

Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management

In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL
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CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP
CTS
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ISM
A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN
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and/or other preapproved courses.
This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar

This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management

Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management

In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a

project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Upper Division Credits Required**: 60

Total Upper Division Credits Required**: 60

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN
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and/or other preapproved courses.
This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

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Technical Electives**

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BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

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Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

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This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is

some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration
Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar
This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management
Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management
In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar

This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management

Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management

In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

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MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

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Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on

the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar

This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management

Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management

In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Core Requirements: 30

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration
Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar
This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management
Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management
In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

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HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

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and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

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Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar

This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management

Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management

In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Upper Division Credits Required**: 60

Total Upper Division Credits Required**: 60

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives**

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BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

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Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

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A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

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and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

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Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar

This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management

Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management

In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar

This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management

Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government

acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management
In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

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Required courses for the Emphasis in Acquisitions

BUL 4333 - Contract Formation and Administration
Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar
This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 4333 .

MAN 3574 - Acquisition Management
Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

MAN 4930 - Capstone: Acquisition Management
In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a

project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3574 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Project Management - Project Management (BAS)

Admission Program of Study Code R100D State CIP Code 1105202021
See the BAS Management and Supervision 2014-2015 Flowchart.

Upper Division Requirements

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Project Management

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

MAN 3120 - Leadership and Group Dynamics

An applied leadership course with a focus on case studies, projects and group interaction; includes theoretical background on group dynamics, small group behavior and motivation, power, types of groups, verbal and non-verbal communication skills and team-building. Emphasis will be placed on sociological and psychological dimensions of inter-group relations, including analysis and problem-solving through simulations, cases and similar activities which reflect a general business perspective, as well as leadership and group dynamics across a variety of business units/functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; GEB 3031 and MAN 3052 recommended, but not required.

MAN 4931 - Capstone: Project Management

____ ____ Approved Upper Division Elective 3 Credit Hours

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MAN 3583 and upper division standing.

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB
GRA
HSA
ISM
A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN
MAR
PAD
STA
and/or other preapproved courses.
This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Project Management

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

MAN 3120 - Leadership and Group Dynamics

An applied leadership course with a focus on case studies, projects and group interaction; includes theoretical background on group dynamics, small group behavior and motivation, power, types of groups, verbal and non-verbal communication skills and team-building. Emphasis will be placed on sociological and psychological dimensions of inter-group relations, including analysis and problem-solving through simulations, cases and similar activities which reflect a general business perspective, as well as leadership and group dynamics across a variety of business units/functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; GEB 3031 and MAN 3052 recommended, but not required.

MAN 4931 - Capstone: Project Management

____ ____ Approved Upper Division Elective 3 Credit Hours

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3583 and upper division standing.

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Required Courses for the Emphasis in Project Management

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

MAN 3120 - Leadership and Group Dynamics

An applied leadership course with a focus on case studies, projects and group interaction; includes theoretical background on group dynamics, small group behavior and motivation, power, types of groups, verbal and non-verbal communication skills and team-building. Emphasis will be placed on sociological and psychological dimensions of inter-group relations, including analysis and problem-solving through simulations, cases and similar activities which reflect a general business perspective, as well as leadership and group dynamics across a variety of business units/functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; GEB 3031 and MAN 3052 recommended, but not required.

MAN 4931 - Capstone: Project Management

____ ____ Approved Upper Division Elective 3 Credit Hours

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MAN 3583 and upper division standing.

Total Emphasis Requirements: 12

Project Management - Quality Improvement (BAS)

Admission Program of Study Code R100F State CIP Code 1105202021

See the BAS Project Management 2014-2015 Flowchart.

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and

issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Quality Improvement

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Upper division standing and MAN 3052 .

MAN 4520 - Quality Management

This course examines the strategic role of quality within an organization, as well as strategic issues involved in managing quality. Topics include assessing customer requirements, developing customer focus and measuring quality performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; GEB 3031 or MAN 3052 preferred.

MAN 4555 - Quality Certification: ISO 9000

A comprehensive study of internationally uniform quality standards (ISO 9000 and the steps to individual and organizational certification; includes management responsibility, quality system documentation, contract review, design control, process control, inspection and testing, corrective actions and other certification topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 4931 - Capstone: Project Management

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MAN 3583 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and

ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making,

organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s): upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics

include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Quality Improvement

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Upper division standing and MAN 3052 .

MAN 4520 - Quality Management

This course examines the strategic role of quality within an organization, as well as strategic issues involved in managing quality. Topics include assessing customer requirements, developing customer focus and measuring quality performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; GEB 3031 or MAN 3052 preferred.

MAN 4555 - Quality Certification: ISO 9000

A comprehensive study of internationally uniform quality standards (ISO 9000 and the steps to individual and organizational certification; includes management responsibility, quality system documentation, contract review, design control, process control, inspection and testing, corrective actions and other certification topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 4931 - Capstone: Project Management

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3583 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who

have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

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Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Quality Improvement

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Upper division standing and MAN 3052 .

MAN 4520 - Quality Management

This course examines the strategic role of quality within an organization, as well as strategic issues involved in managing quality. Topics include assessing customer requirements, developing customer focus and measuring quality performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; GEB 3031 or MAN 3052 preferred.

MAN 4555 - Quality Certification: ISO 9000

A comprehensive study of internationally uniform quality standards (ISO 9000 and the steps to individual and organizational certification; includes management responsibility, quality system documentation, contract review, design control, process control, inspection and testing, corrective actions and other certification topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 4931 - Capstone: Project Management

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MAN 3583 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to

business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s): upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the

manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR
PAD
STA
and/or other preapproved courses.
This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales

letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

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organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and

issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Quality Improvement

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Upper division standing and MAN 3052 .

MAN 4520 - Quality Management

This course examines the strategic role of quality within an organization, as well as strategic issues involved in managing quality. Topics include assessing customer requirements, developing customer focus and measuring quality performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; GEB 3031 or MAN 3052 preferred.

MAN 4555 - Quality Certification: ISO 9000

A comprehensive study of internationally uniform quality standards (ISO 9000 and the steps to individual and organizational certification; includes management responsibility, quality system documentation, contract review, design control, process control, inspection and testing, corrective actions and other certification topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 4931 - Capstone: Project Management

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MAN 3583 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and

ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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upper division standing; prior coursework in management, human relations or general business is desirable.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Upper Division Requirements**

Core Requirements

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This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s): upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

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This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics

include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Required Courses for the Emphasis in Quality Improvement

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Upper division standing and MAN 3052 .

MAN 4520 - Quality Management

This course examines the strategic role of quality within an organization, as well as strategic issues involved in managing quality. Topics include assessing customer requirements, developing customer focus and measuring quality performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; GEB 3031 or MAN 3052 preferred.

MAN 4555 - Quality Certification: ISO 9000

A comprehensive study of internationally uniform quality standards (ISO 9000 and the steps to individual and organizational certification; includes management responsibility, quality system documentation, contract review, design control, process control, inspection and testing, corrective actions and other certification topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 4931 - Capstone: Project Management

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3583 and upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Technical Electives Course Requirements: 18

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The

theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who

have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Project Management - Technology Management (BAS)

Admission Program of Study Code R100H State CIP Code 1105202021
See the BAS Project Management 2014-2015 Flowchart.

Upper Division Requirements**

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have

completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

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Total Core Requirements: 30

Required Courses for the Emphasis in Technology Management

ISM 3220 - Network Technologies for Information Professionals

This course is designed to give the student an understanding of the various networking technologies and their practical application in the management of a business. The course also covers the technical issues involved in designing and implementing an efficient network for voice, data, and information networks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing/admission to any B.A.S. program and at least two information technology or computer science courses at a college or university level.

ISM 3232 - Software Essentials

This course covers a broad range of software topics as they apply to software management and systems analysis and design. Topics include, but are not limited to programming, the systems development life cycle (SDLC), systems management, interface design and Internet technology.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing/admission to any B.A.S. program.

ISM 3323 - Applications in Information Security

This course helps develop the important security concepts relative to software application development and access control that provide the knowledge and skills necessary for the successful management of information security in an organization. Students will understand the environment where software is designed and developed as well as the critical role software plays in providing security to an organization’s information systems. The course focuses on software development concepts that relate to security, and how access control methodologies fit into the entire enterprise architecture.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing/admission to any B.A.S. program.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Required Courses for the Emphasis in Technology Management

ISM 3220 - Network Technologies for Information Professionals

This course is designed to give the student an understanding of the various networking technologies and their practical application in the management of a business. The course also covers the technical issues involved in designing and implementing an efficient network for voice, data, and information networks.

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN
MAR
PAD
STA
and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Total Electives Course Requirement: 18

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Total Electives Course Requirement: 18

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Total Upper Division Credits Required**: 60

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing/admission to any B.A.S. program.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Emphasis Requirements: 12

Total Emphasis Requirements: 12

Total Upper Division Credits Required**: 60

Core Requirements

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

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Total Core Requirements: 30

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

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HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN

MAR

PAD

STA

and/or other preapproved courses.

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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Total Electives Course Requirement: 18

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Total Upper Division Credits Required**: 60

Upper Division Requirements**

Core Requirements

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Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing.

FIN 4402 - Financial and Economic Management

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
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ISM 3232 - Software Essentials

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
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Total Emphasis Requirements: 12

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This course explores the preparation and use of accounting information. Topics include mathematical procedures related to

business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s): upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing.

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the

manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3583 - Project Management
In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

QMB 3250 - Quantitative Methods for Business Decisions
An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Total Core Requirements: 30

Total Core Requirements: 30

Total Core Requirements: 30

Technical Electives**

ACG

BCN 1230 - Building Construction Materials and Processes
Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 2231 - Building Construction Materials and Processes II

BUL

CAP

CGS

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CIS 1000 - Introduction to Computer Science

COP

CTS

ECO

GEB

GRA

HSA

ISM

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MAC 2233 - Business Calculus

MAN
MAR
PAD
STA
and/or other preapproved courses.
This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

Total Electives Course Requirement: 18

Total Electives Course Requirement: 18

Total Electives Course Requirement: 18

Total Upper Division Credits Required**: 60

Elementary Education (BSE)

Admission Program Objective Code S200E State CIP Code 1101312021
The first sixty credits in the following program of study are designed to prepare students not only for the A.A. degree, but also for the General Knowledge exam and Elementary Subject Area exam of the Florida Teacher Certification Exam (FTCE).
If you plan to be an elementary school teacher and are just beginning your A.A. degree, this program of study will best prepare you for that career choice. If you have already completed your A.A. degree and some of your general education courses differ from those listed below, your A.A. degree will still meet that component of the admission process; however, you may need to complete additional coursework, independent study, or workshops to be well prepared for the FTCE Elementary Subject Area exam. A passing score on the FTCE Elementary Subject Area exam is one of the graduation requirements for this degree. For a detailed summary of graduation requirements for this degree program, see the Bachelor of Science graduation requirement section.
Courses with the "C" designation include extra hours to accommodate field experiences.
Substitutions for any coursework in this program of study must be approved by the Teacher Education Program Director. Please note that some courses below may require lower division prerequisites not specified as program requirements. Requirements for Teacher Education programs may change due to legislative mandate. Candidates should request the most current requirements from the Teacher Education Program Director.

Lower Division (Associate Degree) Courses

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule

writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours (MAC 1105 is recommended)
___ ____ - General Education Mathematics 3 Credit Hours (MGF 1106 is recommended)
___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours (HUM 1020 recommended)
___ ____ - General Education Physical Science 4 Credit Hours (GLY ____C is recommended)
___ ____ - General Education Biological Science 4 Credit Hours*
___ ____ - General Education Science 4 Credit Hours*
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours (AMH or POS courses are recommended)**
___ ____ - General Education General Social Science 3 Credit Hours (GEA or ECO courses are recommended)**

* It is recommended that at least one physical or biological science include a lab.

** The two recommended Social Science courses of AMH, POS, GEA or ECO courses not taken to meet General Education requirements should be taken as Lower Division Electives.

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Lower Division Electives

AMH ____ American History I or II 3 Credit Hours

DEP 2100 - Child Growth and Development

ECO ____ Economics I or II 3 Credit Hours

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of

exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from

placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 9

Lower Division Electives

AMH ____ American History I or II 3 Credit Hours

DEP 2100 - Child Growth and Development

ECO ____ Economics I or II 3 Credit Hours

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

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Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

Lower Division Electives

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

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Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

Lower Division Electives

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study.

This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

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Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours (MAC 1105 is recommended)
___ ____ - General Education Mathematics 3 Credit Hours (MGF 1106 is recommended)
___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours (HUM 1020 recommended)
___ ____ - General Education Physical Science 4 Credit Hours (GLY ____C is recommended)
___ ____ - General Education Biological Science 4 Credit Hours*
___ ____ - General Education Science 4 Credit Hours*
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours (AMH or POS courses are recommended)**
___ ____ - General Education General Social Science 3 Credit Hours (GEA or ECO courses are recommended)**

* It is recommended that at least one physical or biological science include a lab.

** The two recommended Social Science courses of AMH, POS, GEA or ECO courses not taken to meet General Education requirements should be taken as Lower Division Electives.

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Lower Division Electives

AMH ____ American History I or II 3 Credit Hours

DEP 2100 - Child Growth and Development

ECO ____ Economics I or II 3 Credit Hours

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-

Curriculum requirement.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

Total Lower Division (Associate Degree) Credits Required: 60

Total Lower Division (Associate Degree) Credits Required: 60

Total Lower Division (Associate Degree) Credits Required: 60

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours (MAC 1105 is recommended)
___ ____ - General Education Mathematics 3 Credit Hours (MGF 1106 is recommended)
___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours (HUM 1020 recommended)
___ ____ - General Education Physical Science 4 Credit Hours (GLY ____C is recommended)
___ ____ - General Education Biological Science 4 Credit Hours*
___ ____ - General Education Science 4 Credit Hours*
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours (AMH or POS courses are recommended)**
___ ____ - General Education General Social Science 3 Credit Hours (GEA or ECO courses are recommended)**

* It is recommended that at least one physical or biological science include a lab.
** The two recommended Social Science courses of AMH, POS, GEA or ECO courses not taken to meet General Education requirements should be taken as Lower Division Electives.
Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of "C" or better.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Upper Division Courses

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education
This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education
This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies
This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics
Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

EDG 4940 - Internship
Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform

Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature
This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education
This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education
This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies
This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics
Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course

emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be

examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Upper Division Courses

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course

requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take

place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for

effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take

place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns,

and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students.

Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Lower Division (Associate Degree) Courses

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule

writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours (MAC 1105 is recommended)
___ ____ - General Education Mathematics 3 Credit Hours (MGF 1106 is recommended)
___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours (HUM 1020 recommended)
___ ____ - General Education Physical Science 4 Credit Hours (GLY ____C is recommended)
___ ____ - General Education Biological Science 4 Credit Hours*
___ ____ - General Education Science 4 Credit Hours*
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours (AMH or POS courses are recommended)**
___ ____ - General Education General Social Science 3 Credit Hours (GEA or ECO courses are recommended)**

* It is recommended that at least one physical or biological science include a lab.

** The two recommended Social Science courses of AMH, POS, GEA or ECO courses not taken to meet General Education requirements should be taken as Lower Division Electives.

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Lower Division Electives

AMH ____ American History I or II 3 Credit Hours

DEP 2100 - Child Growth and Development

ECO ____ Economics I or II 3 Credit Hours

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of

exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from

placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

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Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 9

Lower Division Electives

AMH ____ American History I or II 3 Credit Hours

DEP 2100 - Child Growth and Development

ECO ____ Economics I or II 3 Credit Hours

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

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Total Lower Division (Associate Degree) Credits Required: 60

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LIT 2335 - Introduction to Children’s and Adolescent Literature

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

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Total Lower Division Elective Credits Required: 15

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Total Lower Division (Associate Degree) Credits Required: 60

General Education Course Requirements

ENC 1101 - English Composition I

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Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours (MAC 1105 is recommended)
___ ____ - General Education Mathematics 3 Credit Hours (MGF 1106 is recommended)
___ ____ - General Education Humanities (SATC) 3 Credit Hours
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___ ____ - General Education Gordon Rule Social Science 3 Credit Hours (AMH or POS courses are recommended)**
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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

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ENC 1101 .

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PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

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SPC 1608 - Public Speaking

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Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

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Total Lower Division (Associate Degree) Credits Required: 60

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours (MAC 1105 is recommended)
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___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours (HUM 1020 recommended)
___ ____ - General Education Physical Science 4 Credit Hours (GLY ____C is recommended)
___ ____ - General Education Biological Science 4 Credit Hours*
___ ____ - General Education Science 4 Credit Hours*
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours (AMH or POS courses are recommended)**
___ ____ - General Education General Social Science 3 Credit Hours (GEA or ECO courses are recommended)**

* It is recommended that at least one physical or biological science include a lab.

** The two recommended Social Science courses of AMH, POS, GEA or ECO courses not taken to meet General Education requirements should be taken as Lower Division Electives.

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of "C" or better.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Upper Division Courses

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education
This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education
This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies
This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics
Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

EDG 4940 - Internship
Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform

Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature
This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education
This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education
This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies
This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics
Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course

emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be

examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Total Program Credits Required: 120

Upper Division Courses

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is

to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8
In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2
This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking
This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C and upperdivision standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading
This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading
This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature
This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education
This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education
This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies
This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics
Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course

emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be

examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8.

This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading
This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience
This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice
This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment
This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
TSL 3081C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

Upper Division Courses

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding

literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C and upperdivision standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional

dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum
This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8
In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2
This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking
This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C and upperdivision standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading
This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This

course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Program Content Courses

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course

requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Lower Division (Associate Degree) Courses

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours (MAC 1105 is recommended)

___ ____ - General Education Mathematics 3 Credit Hours (MGF 1106 is recommended)

___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours (HUM 1020 recommended)
___ ____ - General Education Physical Science 4 Credit Hours (GLY ____C is recommended)
___ ____ - General Education Biological Science 4 Credit Hours*
___ ____ - General Education Science 4 Credit Hours*
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours (AMH or POS courses are recommended)**
___ ____ - General Education General Social Science 3 Credit Hours (GEA or ECO courses are recommended)**
* It is recommended that at least one physical or biological science include a lab.
** The two recommended Social Science courses of AMH, POS, GEA or ECO courses not taken to meet General Education requirements should be taken as Lower Division Electives.
Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of "C" or better.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Lower Division Electives

AMH ____ American History I or II 3 Credit Hours

DEP 2100 - Child Growth and Development

ECO ____ Economics I or II 3 Credit Hours
This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common

prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 9

Lower Division Electives

AMH ____ American History I or II 3 Credit Hours

DEP 2100 - Child Growth and Development

ECO ____ Economics I or II 3 Credit Hours

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

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Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

Lower Division Electives

AMH ____ American History I or II 3 Credit Hours

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This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

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This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

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Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

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Total Lower Division Elective Credits Required: 15

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Total Lower Division (Associate Degree) Credits Required: 60

Lower Division Electives

AMH ____ American History I or II 3 Credit Hours

DEP 2100 - Child Growth and Development

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

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Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

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Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule

requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology
Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking
Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

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a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Lower Division Elective Credits Required: 15

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Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

General Education Course Requirements

ENC 1101 - English Composition I
Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours (MAC 1105 is recommended)
___ ____ - General Education Mathematics 3 Credit Hours (MGF 1106 is recommended)
___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours (HUM 1020 recommended)
___ ____ - General Education Physical Science 4 Credit Hours (GLY ____C is recommended)
___ ____ - General Education Biological Science 4 Credit Hours*
___ ____ - General Education Science 4 Credit Hours*
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours (AMH or POS courses are recommended)**
___ ____ - General Education General Social Science 3 Credit Hours (GEA or ECO courses are recommended)**

* It is recommended that at least one physical or biological science include a lab.

** The two recommended Social Science courses of AMH, POS, GEA or ECO courses not taken to meet General Education requirements should be taken as Lower Division Electives.

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of "C" or better.

Total General Education Credits Required: 36

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Lower Division Electives

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DEP 2100 - Child Growth and Development

ECO ____ Economics I or II 3 Credit Hours

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common

prerequisites.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children’s and Adolescent Literature

Designed to explore the range and diversity of the children’s literary canon, surveying the historical development of children’s and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common

prerequisites.

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division Elective Credits Required: 15

Total Lower Division (Associate Degree) Credits Required: 60

Total Lower Division (Associate Degree) Credits Required: 60

Total Lower Division (Associate Degree) Credits Required: 60

Total Lower Division (Associate Degree) Credits Required: 60

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours (MAC 1105 is recommended)
___ ____ - General Education Mathematics 3 Credit Hours (MGF 1106 is recommended)
___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours (HUM 1020 recommended)
___ ____ - General Education Physical Science 4 Credit Hours (GLY ____C is recommended)
___ ____ - General Education Biological Science 4 Credit Hours*
___ ____ - General Education Science 4 Credit Hours*
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours (AMH or POS courses are recommended)**
___ ____ - General Education General Social Science 3 Credit Hours (GEA or ECO courses are recommended)**

* It is recommended that at least one physical or biological science include a lab.

** The two recommended Social Science courses of AMH, POS, GEA or ECO courses not taken to meet General Education requirements should be taken as Lower Division Electives.

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of "C" or better.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Middle Grades General Science (BSE)

Admission Program Objective Code S200S State CIP Code 1101313165

The first sixty credits in the following program of study are designed to prepare students not only for the A.A. degree, but also for the General Knowledge exam and Middle Grades General Science Subject Area exam of the Florida Teacher Certification Exam (FTCE).

If you plan to be a middle grades science teacher and are just beginning your A.A. degree, this program of study will best prepare you for that career choice. If you have already completed your A.A. degree and some of your general education courses differ from those listed below, your A.A. degree will still meet that component of the admission process; however, you may need to complete additional coursework, independent study, or workshops to be well prepared for the FTCE Middle Grades General Science Subject Area exam. A passing score on the FTCE Middle Grades General Science Subject Area exam is one of the graduation requirements for this degree. For a detailed summary of graduation requirements for this degree program, see the Bachelor of Science graduation requirement section.

Courses with the "C" designation include extra hours to accommodate laboratory and field experiences.

Substitutions for any coursework in this program of study must be approved by the Teacher Education Program Director. Please note that some courses below may require lower division prerequisites not specified as program requirements. Requirements for Teacher Education programs may change due to legislative mandates. Candidates should request the most current requirements from the Teacher Education Program Director.

Lower Division (Associate Degree) Courses

General Education Course Requirements

BSC 1010C - Principles of Biology I recommended

A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

high school biology and chemistry or CHM 1020 and eligibility to enroll in MAC 1105 .

BSC 1011C - Principles of Biology II recommended

This course is a continuation of BSC 1010C . It provides an overview of the history of life on Earth, a summary of the concepts of phylogeny and classification, and a survey of organisms with emphasis on plants and animals. Structure, evolution, taxonomy, and ecology of the major phyla will be included. This course is required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
BSC 1010C .

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours
___ ____ - General Education Mathematics 3 Credit Hours
___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours
___ ____ - General Education General Social Science 3 Credit Hours

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of ENC 1101 or an equivalent course with a grade of “C” or better.

PHY 1020 - Physical Science

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 36

Total General Education Credits Required: 36

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours

OCE ____C - Oceanographic Science 3 Credit Hours

Two-course science sequence with lab to be satisfied in General Education Requirements

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C"

if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours

OCE ____C - Oceanographic Science 3 Credit Hours

Two-course science sequence with lab to be satisfied in General Education Requirements

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Total State-Mandated Prerequisite Credits Required: 16

General Education Course Requirements

BSC 1010C - Principles of Biology I recommended

A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

high school biology and chemistry or CHM 1020 and eligibility to enroll in MAC 1105 .

BSC 1011C - Principles of Biology II recommended

This course is a continuation of BSC 1010C . It provides an overview of the history of life on Earth, a summary of the concepts of phylogeny and classification, and a survey of organisms with emphasis on plants and animals. Structure, evolution, taxonomy, and ecology of the major phyla will be included. This course is required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

BSC 1010C .

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular

theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours
___ ____ - General Education Mathematics 3 Credit Hours
___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours
___ ____ - General Education General Social Science 3 Credit Hours

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

PHY 1020 - Physical Science

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 36

Total General Education Credits Required: 36

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of

multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours

OCE ____C - Oceanographic Science 3 Credit Hours

Two-course science sequence with lab to be satisfied in General Education Requirements

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Lower Division Electives

EVR 1001C - Environmental Science

CHM XXXX 4 Credit Hours

PHY XXXX 4 Credit Hours

GLY XXXX 4 Credit Hours

ISC XXXX 4 Credit Hours

A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours

OCE ____C - Oceanographic Science 3 Credit Hours

Two-course science sequence with lab to be satisfied in General Education Requirements

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total Lower Division (Associate Degree) Credits Required: 60

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours

OCE ____C - Oceanographic Science 3 Credit Hours

Two-course science sequence with lab to be satisfied in General Education Requirements

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Total State-Mandated Prerequisite Credits Required: 16

Lower Division Electives

EVR 1001C - Environmental Science

CHM XXXX 4 Credit Hours

PHY XXXX 4 Credit Hours

GLY XXXX 4 Credit Hours
ISC XXXX 4 Credit Hours
A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours
OCE ____C - Oceanographic Science 3 Credit Hours
Two-course science sequence with lab to be satisfied in General Education Requirements
This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Lower Division Electives

EVR 1001C - Environmental Science

CHM XXXX 4 Credit Hours
PHY XXXX 4 Credit Hours
GLY XXXX 4 Credit Hours
ISC XXXX 4 Credit Hours
A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours
OCE ____C - Oceanographic Science 3 Credit Hours
Two-course science sequence with lab to be satisfied in General Education Requirements
This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety

of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Lower Division Electives

EVR 1001C - Environmental Science

CHM XXXX 4 Credit Hours
PHY XXXX 4 Credit Hours
GLY XXXX 4 Credit Hours
ISC XXXX 4 Credit Hours
A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Total Lower Division Elective Credits Required: 8

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Total Lower Division Elective Credits Required: 8

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours

OCE ____C - Oceanographic Science 3 Credit Hours

Two-course science sequence with lab to be satisfied in General Education Requirements

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Total State-Mandated Prerequisite Credits Required: 16

Total Lower Division (Associate Degree) Credits Required: 60

Upper Division Courses

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems
Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum
This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education
This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience
In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice
This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

CHM 1020 - Chemical Science
or
Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science
___ ____ Department approved Science elective 4 Credit Hours
___ ____ Department approved Science elective 4 Credit Hours
A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science
This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice
This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

CHM 1020 - Chemical Science
or
Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science
___ ____ Department approved Science elective 4 Credit Hours
___ ____ Department approved Science elective 4 Credit Hours
A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science
This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

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Program Content Courses

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching

situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

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Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

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Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select

software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice
This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

CHM 1020 - Chemical Science
or
Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science
___ ____ Department approved Science elective 4 Credit Hours
___ ____ Department approved Science elective 4 Credit Hours
A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science
This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems
Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum
This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education
This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience
In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours
___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems
Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum
This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education
This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience
In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice
This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

CHM 1020 - Chemical Science
or
Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science
___ ____ Department approved Science elective 4 Credit Hours
___ ____ Department approved Science elective 4 Credit Hours
A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science
This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Minimum Grade of "B" in any college-level science course and permission of instructor.

Program Content Courses

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Upper Division Courses

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching

situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select

software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching

situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select

software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom
In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems
Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum
This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education
This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to

teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom
In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems
Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum
This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education
This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to

teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom
In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems
Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum
This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom
In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems
Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum
This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom
In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems
Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum
This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education
This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to

teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Total Program Credits Required: 120

Lower Division (Associate Degree) Courses

General Education Course Requirements

BSC 1010C - Principles of Biology I recommended

A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

high school biology and chemistry or CHM 1020 and eligibility to enroll in MAC 1105 .

BSC 1011C - Principles of Biology II recommended

This course is a continuation of BSC 1010C . It provides an overview of the history of life on Earth, a summary of the concepts of phylogeny and classification, and a survey of organisms with emphasis on plants and animals. Structure, evolution, taxonomy, and ecology of the major phyla will be included. This course is required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

BSC 1010C .

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours

___ ____ - General Education Mathematics 3 Credit Hours

___ ____ - General Education Humanities (SATC) 3 Credit Hours

___ ____ - General Education Humanities 3 Credit Hours
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours
___ ____ - General Education General Social Science 3 Credit Hours
Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of ENC 1101 or an equivalent course with a grade of "C" or better.

PHY 1020 - Physical Science

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 36

Total General Education Credits Required: 36

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours
OCE ____C - Oceanographic Science 3 Credit Hours
Two-course science sequence with lab to be satisfied in General Education Requirements
This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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State-Mandated Prerequisites

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General Education Course Requirements

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A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

high school biology and chemistry or CHM 1020 and eligibility to enroll in MAC 1105 .

BSC 1011C - Principles of Biology II recommended

This course is a continuation of BSC 1010C . It provides an overview of the history of life on Earth, a summary of the concepts of phylogeny and classification, and a survey of organisms with emphasis on plants and animals. Structure, evolution, taxonomy, and ecology of the major phyla will be included. This course is required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

BSC 1010C .

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

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Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

___ ____ - General Education Mathematics 3 Credit Hours
___ ____ - General Education Mathematics 3 Credit Hours
___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours
___ ____ - General Education General Social Science 3 Credit Hours

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part

of the essay process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of ENC 1101 or an equivalent course with a grade of "C" or better.

PHY 1020 - Physical Science

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 36

Total General Education Credits Required: 36

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours
OCE ____C - Oceanographic Science 3 Credit Hours
Two-course science sequence with lab to be satisfied in General Education Requirements
This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Total State-Mandated Prerequisite Credits Required: 16

Lower Division Electives

EVR 1001C - Environmental Science

CHM XXXX 4 Credit Hours
PHY XXXX 4 Credit Hours
GLY XXXX 4 Credit Hours
ISC XXXX 4 Credit Hours
A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

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Two-course science sequence with lab to be satisfied in General Education Requirements
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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total Lower Division (Associate Degree) Credits Required: 60

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

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Lower Division Electives

EVR 1001C - Environmental Science

CHM XXXX 4 Credit Hours
PHY XXXX 4 Credit Hours
GLY XXXX 4 Credit Hours
ISC XXXX 4 Credit Hours
A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Total Lower Division Elective Credits Required: 8

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State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

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Two-course science sequence with lab to be satisfied in General Education Requirements

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Lower Division Electives

EVR 1001C - Environmental Science

CHM XXXX 4 Credit Hours

PHY XXXX 4 Credit Hours

GLY XXXX 4 Credit Hours

ISC XXXX 4 Credit Hours

A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours

OCE ____C - Oceanographic Science 3 Credit Hours

Two-course science sequence with lab to be satisfied in General Education Requirements

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Lower Division Electives

EVR 1001C - Environmental Science

CHM XXXX 4 Credit Hours
PHY XXXX 4 Credit Hours
GLY XXXX 4 Credit Hours
ISC XXXX 4 Credit Hours
A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

Total Lower Division Elective Credits Required: 8

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

GLY ____C - Geological Science 4 Credit Hours
OCE ____C - Oceanographic Science 3 Credit Hours
Two-course science sequence with lab to be satisfied in General Education Requirements
This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total State-Mandated Prerequisite Credits Required: 16

Total Lower Division (Associate Degree) Credits Required: 60

Upper Division Courses

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education
This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience
In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice
This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

CHM 1020 - Chemical Science
or
Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular

theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education
This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience
In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice
This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

CHM 1020 - Chemical Science
or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas
This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8
This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education
This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience
In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice
This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

CHM 1020 - Chemical Science
or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course

emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Upper Division Courses

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check

(fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or

better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area

instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020

(Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

CHM 1020 - Chemical Science
or
Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science
___ ____ Department approved Science elective 4 Credit Hours
___ ____ Department approved Science elective 4 Credit Hours
A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science
This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Minimum Grade of "B" in any college-level science course and permission of instructor.

Program Content Courses

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education
This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies
This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson

plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for

vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards,

instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards,

instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check

(fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

CHM 1020 - Chemical Science

or

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

___ ____ Department approved Science elective 4 Credit Hours

___ ____ Department approved Science elective 4 Credit Hours

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Middle Grades Mathematics (BSE)

Admission Program Objective Code S200M State CIP Code 1101313112

The first sixty credits in the following program of study are designed to prepare students not only for the A.A. degree, but also for the General Knowledge exam and Middle Grades Math Subject Area exam of the Florida Teacher Certification Exam (FTCE).

If you plan to be a middle grades math teacher and are just beginning your A.A. degree, this program of study will best prepare you for that career choice. If you have already completed your A.A. degree and some of your general education courses differ from those listed below, your A.A. degree will still meet that component of the admission process; however, you may need to complete additional coursework, independent study, or workshops to be well prepared for the FTCE Middle Grades Math Subject Area exam.

A passing score on the FTCE Middle Grades Mathematics Subject Area exam is one of the graduation requirements for this degree. For a detailed summary of graduation requirements for this degree program, see the Bachelor of Science graduation requirement section.

Courses with the "C" designation include extra hours to accommodate laboratory and field experiences.

Substitutions for any coursework in this program of study must be approved by the Teacher Education Program Director. Please note that some courses below may require lower division prerequisites not specified as program requirements. Requirements for Teacher Education programs may change due to legislative mandates. Candidates should request the most current requirements from the Teacher Education Program Director.

Lower Division (Associate Degree) Courses

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

MAC 1114 - Trigonometry *

___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours
___ ____ - General Education General Social Science 3 Credit Hours
___ ____ - General Education Biological Science 4 Credit Hours**
___ ____ - General Education Physical Science 4 Credit Hours**
___ ____ - General Education Biological or Physical Science 4 Credit Hours

*Taking both MAC 1140 and MAC 1114 satisfies 4 credits of MAC state-mandated pre-requisites.

**It is recommended that at least one physical or biological science include a lab.

This is the second course in a Pre-calculus sequence which includes the following topics: definitions, graphs, and properties of the six trigonometric functions and their inverses; trigonometric identities; solving trigonometric equations; solving right and oblique triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

MAC 1140 - Pre-Calculus Algebra *

This is the first course in a two-course Pre-calculus sequence which includes the following: equations and inequalities; linear, quadratic, logarithmic and exponential functions and relations; systems of equations; matrices and determinants, mathematical proof techniques, including mathematical induction; binomial theorem; sequences and series; and applications of algebraic techniques in the real world. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1105 with a grade of “C” or better, or equivalent; or appropriate placement score.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Total Lower Division (Associate Degree) Credits Required: 60

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

MAC 2311 - Calculus I

MAC ____ - Approved Mathematics Course(s) 4 Credit Hours (To be satisfied in General Education Requirements by MAC 1140 and MAC 1114)

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L’Hopital’s Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle’s theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of “C” or better or equivalent; or appropriate placement score.

Total State-Mandated Prerequisite Credits Required: 13

Lower Division Electives

MAC 1105 - College Algebra

___ ____ - Elective 4 Credit Hours

___ ____ - Elective 4 Credit Hours

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and

decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

Total Lower Division Elective Credits Required: 11

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Lower Division Electives

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___ ____ - Elective 4 Credit Hours

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This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

Total Lower Division Elective Credits Required: 11

Total Lower Division Elective Credits Required: 11

Total Lower Division (Associate Degree) Credits Required: 60

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

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Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of “C” or better or equivalent; or appropriate placement score.

Total State-Mandated Prerequisite Credits Required: 13

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

MAC 1114 - Trigonometry *

___ ____ - General Education Humanities (SATC) 3 Credit Hours
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___ ____ - General Education Biological Science 4 Credit Hours**
___ ____ - General Education Physical Science 4 Credit Hours**
___ ____ - General Education Biological or Physical Science 4 Credit Hours

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**It is recommended that at least one physical or biological science include a lab.

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triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1105 with a grade of “C” or better, or equivalent; or appropriate placement score.

Total General Education Credits Required: 36

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State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

MAC 2311 - Calculus I

MAC ____ - Approved Mathematics Course(s) 4 Credit Hours (To be satisfied in General Education Requirements by MAC 1140 and MAC 1114)

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L’Hopital’s Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle’s theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic

graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of “C” or better or equivalent; or appropriate placement score.

Total State-Mandated Prerequisite Credits Required: 13

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

MAC 2311 - Calculus I

MAC ____ - Approved Mathematics Course(s) 4 Credit Hours (To be satisfied in General Education Requirements by MAC 1140 and MAC 1114)

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L’Hopital’s Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle’s theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of “C” or better or equivalent; or appropriate placement score.

Total State-Mandated Prerequisite Credits Required: 13

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in

the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

MAC 2311 - Calculus I

MAC ____ - Approved Mathematics Course(s) 4 Credit Hours (To be satisfied in General Education Requirements by MAC 1140 and MAC 1114)

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L’Hopital’s Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle’s theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of “C” or better or equivalent; or appropriate placement score.

Total State-Mandated Prerequisite Credits Required: 13

State-Mandated Prerequisites

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

MAC 2311 - Calculus I

MAC ____ - Approved Mathematics Course(s) 4 Credit Hours (To be satisfied in General Education Requirements by MAC 1140 and MAC 1114)

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L’Hopital’s Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle’s theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of “C” or better or equivalent; or appropriate placement score.

Total State-Mandated Prerequisite Credits Required: 13

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

MAC 1114 - Trigonometry *

___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours
___ ____ - General Education General Social Science 3 Credit Hours
___ ____ - General Education Biological Science 4 Credit Hours**
___ ____ - General Education Physical Science 4 Credit Hours**
___ ____ - General Education Biological or Physical Science 4 Credit Hours

*Taking both MAC 1140 and MAC 1114 satisfies 4 credits of MAC state-mandated pre-requisites.

**It is recommended that at least one physical or biological science include a lab.

This is the second course in a Pre-calculus sequence which includes the following topics: definitions, graphs, and properties of the six trigonometric functions and their inverses; trigonometric identities; solving trigonometric equations; solving right and oblique triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for

general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

MAC 1140 - Pre-Calculus Algebra *

This is the first course in a two-course Pre-calculus sequence which includes the following: equations and inequalities; linear, quadratic, logarithmic and exponential functions and relations; systems of equations; matrices and determinants, mathematical proof techniques, including mathematical induction; binomial theorem; sequences and series; and applications of algebraic techniques in the real world. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1105 with a grade of “C” or better, or equivalent; or appropriate placement score.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

General Education Course Requirements

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

MAC 1114 - Trigonometry *

___ ____ - General Education Humanities (SATC) 3 Credit Hours
___ ____ - General Education Humanities 3 Credit Hours
___ ____ - General Education Gordon Rule Social Science 3 Credit Hours
___ ____ - General Education General Social Science 3 Credit Hours
___ ____ - General Education Biological Science 4 Credit Hours**
___ ____ - General Education Physical Science 4 Credit Hours**
___ ____ - General Education Biological or Physical Science 4 Credit Hours

*Taking both MAC 1140 and MAC 1114 satisfies 4 credits of MAC state-mandated pre-requisites.

**It is recommended that at least one physical or biological science include a lab.

This is the second course in a Pre-calculus sequence which includes the following topics: definitions, graphs, and properties of the six trigonometric functions and their inverses; trigonometric identities; solving trigonometric equations; solving right and oblique triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for

general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

MAC 1140 - Pre-Calculus Algebra *

This is the first course in a two-course Pre-calculus sequence which includes the following: equations and inequalities; linear, quadratic, logarithmic and exponential functions and relations; systems of equations; matrices and determinants, mathematical proof techniques, including mathematical induction; binomial theorem; sequences and series; and applications of algebraic techniques in the real world. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1105 with a grade of “C” or better, or equivalent; or appropriate placement score.

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Upper Division Courses

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

MAD 3107 - Applied Discrete Mathematics

This course builds on the foundation established in Introduction to Discrete Mathematics with further exploration in logic, mathematical reasoning, and mathematical proof writing. Topics include logic, set theory, boolean algebra, combinatorics, and graph theory with applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

Completion of MAC 2312 with a grade of “C” or better or concurrent enrollment in MAC 2312 .

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4312C - How Children Learn Math

This course is designed to develop the skills and concepts necessary to deliver the mathematics curriculum effectively in the classroom. The content strongly reflects the curriculum emphases of the National Council of Teacher of Mathematics, and topics

are presented using a process-oriented approach. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4930C - Seminar in Math Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in mathematics, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4940C - Teaching Methods in Middle Grades Math Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MHF 4404 - History of Mathematics

This course is for students pursuing an education degree with an emphasis in middle school and secondary mathematics. This course covers the evolution of mathematics from early number systems through modern mathematics. If used to meet NWFSC Teacher Education program requirements, this course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Completion of MAC 2311 with a grade of "C" or better or concurrent enrollment in MAC 2311 .

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District

in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAC 2312 - Calculus II
This is the second course in a three-course sequence. The course covers the following: techniques for finding areas, volumes, arc lengths and surface areas, methods of integration, including integration by parts, trigonometric substitution, and partial fractions, improper integrals, conic sections, graphing and area in polar coordinates, infinite sequences and series, tests for absolute and conditional convergence of series, and power series. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAC 2311 with a grade of “C” or better or equivalent.

MTG 2206 - College Geometry
This course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve the following: line segments, angles, triangles, polygons, parallel and perpendicular lines, slopes of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems. Lines and other geometric figures are graphed in the rectangular coordinate system. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
completion of MAC 1105 or equivalent with a “C” or better.

STA 2023 - Statistics
This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Program Content Courses

EDF 3214 - Human Development and Learning
This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education
This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

MAD 3107 - Applied Discrete Mathematics

This course builds on the foundation established in Introduction to Discrete Mathematics with further exploration in logic, mathematical reasoning, and mathematical proof writing. Topics include logic, set theory, boolean algebra, combinatorics, and graph theory with applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

Completion of MAC 2312 with a grade of “C” or better or concurrent enrollment in MAC 2312 .

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field

experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4312C - How Children Learn Math

This course is designed to develop the skills and concepts necessary to deliver the mathematics curriculum effectively in the classroom. The content strongly reflects the curriculum emphases of the National Council of Teacher of Mathematics, and topics are presented using a process-oriented approach. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4930C - Seminar in Math Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in mathematics, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4940C - Teaching Methods in Middle Grades Math Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MHF 4404 - History of Mathematics

This course is for students pursuing an education degree with an emphasis in middle school and secondary mathematics. This course covers the evolution of mathematics from early number systems through modern mathematics. If used to meet NWFSC Teacher Education program requirements, this course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Completion of MAC 2311 with a grade of "C" or better or concurrent enrollment in MAC 2311 .

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAC 2312 - Calculus II

This is the second course in a three-course sequence. The course covers the following: techniques for finding areas, volumes, arc lengths and surface areas, methods of integration, including integration by parts, trigonometric substitution, and partial fractions, improper integrals, conic sections, graphing and area in polar coordinates, infinite sequences and series, tests for absolute and conditional convergence of series, and power series. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAC 2311 with a grade of “C” or better or equivalent.

MTG 2206 - College Geometry

This course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve the following: line segments, angles, triangles, polygons, parallel and perpendicular lines, slopes of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems. Lines and other geometric figures are graphed in the rectangular coordinate system. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
completion of MAC 1105 or equivalent with a “C” or better.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Upper Division Courses

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as

a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

MAD 3107 - Applied Discrete Mathematics

This course builds on the foundation established in Introduction to Discrete Mathematics with further exploration in logic, mathematical reasoning, and mathematical proof writing. Topics include logic, set theory, boolean algebra, combinatorics, and graph theory with applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

Completion of MAC 2312 with a grade of “C” or better or concurrent enrollment in MAC 2312 .

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4312C - How Children Learn Math

This course is designed to develop the skills and concepts necessary to deliver the mathematics curriculum effectively in the classroom. The content strongly reflects the curriculum emphases of the National Council of Teacher of Mathematics, and topics are presented using a process-oriented approach. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4930C - Seminar in Math Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in mathematics, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4940C - Teaching Methods in Middle Grades Math Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MHF 4404 - History of Mathematics

This course is for students pursuing an education degree with an emphasis in middle school and secondary mathematics. This

course covers the evolution of mathematics from early number systems through modern mathematics. If used to meet NWFSC Teacher Education program requirements, this course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Completion of MAC 2311 with a grade of "C" or better or concurrent enrollment in MAC 2311 .

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAC 2312 - Calculus II

This is the second course in a three-course sequence. The course covers the following: techniques for finding areas, volumes, arc lengths and surface areas, methods of integration, including integration by parts, trigonometric substitution, and partial fractions, improper integrals, conic sections, graphing and area in polar coordinates, infinite sequences and series, tests for absolute and conditional convergence of series, and power series. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2311 with a grade of “C” or better or equivalent.

MTG 2206 - College Geometry

This course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve the following: line segments, angles, triangles, polygons, parallel and perpendicular lines, slopes of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems. Lines and other geometric figures are graphed in the rectangular coordinate system. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

completion of MAC 1105 or equivalent with a “C” or better.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling

distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Program Content Courses

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and

interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

MAD 3107 - Applied Discrete Mathematics

This course builds on the foundation established in Introduction to Discrete Mathematics with further exploration in logic, mathematical reasoning, and mathematical proof writing. Topics include logic, set theory, boolean algebra, combinatorics, and graph theory with applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

Completion of MAC 2312 with a grade of “C” or better or concurrent enrollment in MAC 2312 .

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4312C - How Children Learn Math

This course is designed to develop the skills and concepts necessary to deliver the mathematics curriculum effectively in the classroom. The content strongly reflects the curriculum emphases of the National Council of Teacher of Mathematics, and topics are presented using a process-oriented approach. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4930C - Seminar in Math Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in mathematics, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4940C - Teaching Methods in Middle Grades Math Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in a middle

school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MHF 4404 - History of Mathematics

This course is for students pursuing an education degree with an emphasis in middle school and secondary mathematics. This course covers the evolution of mathematics from early number systems through modern mathematics. If used to meet NWFSC Teacher Education program requirements, this course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Completion of MAC 2311 with a grade of "C" or better or concurrent enrollment in MAC 2311 .

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAC 2312 - Calculus II

This is the second course in a three-course sequence. The course covers the following: techniques for finding areas, volumes, arc lengths and surface areas, methods of integration, including integration by parts, trigonometric substitution, and partial fractions, improper integrals, conic sections, graphing and area in polar coordinates, infinite sequences and series, tests for absolute and conditional convergence of series, and power series. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2311 with a grade of “C” or better or equivalent.

MTG 2206 - College Geometry

This course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve the following: line segments, angles, triangles, polygons, parallel and perpendicular lines,

slopes of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems. Lines and other geometric figures are graphed in the rectangular coordinate system. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
completion of MAC 1105 or equivalent with a “C” or better.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Total Upper Division Credits Required: 60

Total Upper Division Credits Required: 60

Total Program Credits Required: 120

Total Program Credits Required: 120

Accounting Technology (AS)

Admission Program of Study Code 2370 State CIP Code 1552030200
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Accounting Technology Management (CCC) (State CIP Code 0552030205).

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

ACG 2450 - Computer Applications for Accounting

An introductory course in computerized integrated accounting procedures found in the microcomputer environment. Includes application of software designed for general ledger, accounts payable and receivable, financial statement analysis, purchasing and sales order processing, fixed assets, payroll, inventory and departmental accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

▲Technology-Across-the-Curriculum Course.

ACO 1806 - Payroll Accounting

Introduction to the theory, laws and procedures related to payroll activities of a business. Topics include payroll and personnel records, federal payroll laws, payroll operations, computerized payroll systems, and preparation of payroll registers, earnings records, and payroll tax forms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

TAX 2000 - Federal Income Tax: Individual

Federal Income Taxes. Determine income tax for individuals, interpretations of Internal Revenue Code and Regulation, tax planning and advisory service. Brief introduction to partnership, corporation, estate and gift taxes. Extensive practice problems in individual income tax returns and research in tax questions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 33

Total Core Credits Required: 33

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General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

ACG 2450 - Computer Applications for Accounting

An introductory course in computerized integrated accounting procedures found in the microcomputer environment. Includes application of software designed for general ledger, accounts payable and receivable, financial statement analysis, purchasing and sales order processing, fixed assets, payroll, inventory and departmental accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

▲Technology-Across-the-Curriculum Course.

ACO 1806 - Payroll Accounting

Introduction to the theory, laws and procedures related to payroll activities of a business. Topics include payroll and personnel records, federal payroll laws, payroll operations, computerized payroll systems, and preparation of payroll registers, earnings records, and payroll tax forms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

TAX 2000 - Federal Income Tax: Individual

Federal Income Taxes. Determine income tax for individuals, interpretations of Internal Revenue Code and Regulation, tax planning and advisory service. Brief introduction to partnership, corporation, estate and gift taxes. Extensive practice problems in individual income tax returns and research in tax questions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 33

Total Core Credits Required: 33

Total Core Credits Required: 33

Total Core Credits Required: 33

Total Core Credits Required: 33

Technical Elective Courses

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

BUL 2242 - Business Law II

Course context explores laws relative to negotiable instruments, agency, partnerships, (includes study of Uniform Partnership Act), corporation law, creditors rights, consumer protection and insurance. Based on Uniform Commercial Code.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ECO 2023 - Economics II

This course covers microeconomics, including economic structures, price theory, factor markets, and general equilibrium. It also includes the economics of information, externalities, and other current national and international issues.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, or as needed) Prerequisite(s):

ECO 2013 or equivalent.

GEB 1940 - Internship - Business

____ ____ Other Approved College Credits _

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Total Technical Elective Credits Required: 13

Total Technical Elective Credits Required: 13

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner’s equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of

professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
although not required, MTB 1103 is highly recommended.

Note:
▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ACG 2011 .

ACG 2450 - Computer Applications for Accounting

An introductory course in computerized integrated accounting procedures found in the microcomputer environment. Includes application of software designed for general ledger, accounts payable and receivable, financial statement analysis, purchasing and sales order processing, fixed assets, payroll, inventory and departmental accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ACG 2001 .

Note:
▲Technology-Across-the-Curriculum Course.

ACO 1806 - Payroll Accounting

Introduction to the theory, laws and procedures related to payroll activities of a business. Topics include payroll and personnel records, federal payroll laws, payroll operations, computerized payroll systems, and preparation of payroll registers, earnings records, and payroll tax forms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ACG 2001 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 or competency exam.

Note:
▲Technology-Across-the-Curriculum Course.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

TAX 2000 - Federal Income Tax: Individual

Federal Income Taxes. Determine income tax for individuals, interpretations of Internal Revenue Code and Regulation, tax planning and advisory service. Brief introduction to partnership, corporation, estate and gift taxes. Extensive practice problems in individual income tax returns and research in tax questions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 33

Total Core Credits Required: 33

Total Core Credits Required: 33

Total Core Credits Required: 33

Total Core Credits Required: 33

Total Program Credits Required: 64

Total Program Credits Required: 64

Core Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner’s equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

ACG 2450 - Computer Applications for Accounting

An introductory course in computerized integrated accounting procedures found in the microcomputer environment. Includes application of software designed for general ledger, accounts payable and receivable, financial statement analysis, purchasing and sales order processing, fixed assets, payroll, inventory and departmental accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

▲Technology-Across-the-Curriculum Course.

ACO 1806 - Payroll Accounting

Introduction to the theory, laws and procedures related to payroll activities of a business. Topics include payroll and personnel records, federal payroll laws, payroll operations, computerized payroll systems, and preparation of payroll registers, earnings records, and payroll tax forms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

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TAX 2000 - Federal Income Tax: Individual

Federal Income Taxes. Determine income tax for individuals, interpretations of Internal Revenue Code and Regulation, tax planning and advisory service. Brief introduction to partnership, corporation, estate and gift taxes. Extensive practice problems in individual income tax returns and research in tax questions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 33

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Total Core Credits Required: 33

Total Core Credits Required: 33

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total Program Credits Required: 64

Accounting Technology Management (CCC)

Admission Program of Study Code 6370 State CIP Code 0552030205
Students who successfully complete this certificate may be eligible to receive credits towards the Accounting Technology (AS) degree (State CIP Code 1552030200).

Core Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

ACG 2450 - Computer Applications for Accounting

An introductory course in computerized integrated accounting procedures found in the microcomputer environment. Includes application of software designed for general ledger, accounts payable and receivable, financial statement analysis, purchasing and sales order processing, fixed assets, payroll, inventory and departmental accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

▲Technology-Across-the-Curriculum Course.

ACO 1806 - Payroll Accounting

Introduction to the theory, laws and procedures related to payroll activities of a business. Topics include payroll and personnel records, federal payroll laws, payroll operations, computerized payroll systems, and preparation of payroll registers, earnings records, and payroll tax forms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

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CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 or competency exam.

Note:
▲Technology-Across-the-Curriculum Course.

GEB 1011 - Introduction to Business

____ ____ Other Approved College Credits 3 Credit Hours
Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Core Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
although not required, MTB 1103 is highly recommended.

Note:
▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

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ACG 2011 .

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CGS 1100 or competency exam.

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GEB 1011 - Introduction to Business

____ ____ Other Approved College Credits 3 Credit Hours
Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Program Credits Required: 27

Core Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner’s equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
although not required, MTB 1103 is highly recommended.

Note:
▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders’ equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

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ACG 2011 .

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ACG 2001 .

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

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GEB 1011 - Introduction to Business

____ ____ Other Approved College Credits 3 Credit Hours

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Program Credits Required: 27

Core Courses

ACG 2001 - Accounting I

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

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ACG 2001 .

Note:
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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
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This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 or competency exam.

Note:
▲Technology-Across-the-Curriculum Course.

GEB 1011 - Introduction to Business

____ ____ Other Approved College Credits 3 Credit Hours

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Advanced Network Infrastructure (CCC)

Admission Program of Study Code 6144 State CIP Code 0511100115

This certificate program is prepares students for MCSE/MCSA industry certifications. Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Core Courses

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation

for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 18

Total Core Credits Required: 18

Total Core Credits Required: 18

Total Program Credits Required: 36

Core Courses

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 18

Total Core Credits Required: 18

Total Core Credits Required: 18

Technical Elective Courses

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows

8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Technical Elective Courses

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Total Program Credits Required: 36

Technical Elective Courses

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the

three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Total Program Credits Required: 36

Total Program Credits Required: 36

Technical Elective Courses

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows

Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Technical Elective Courses

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and

Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Technical Elective Courses

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Technical Elective Courses

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of

those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Total Program Credits Required: 36

Applied Welding Technologies (PSAV)

Admission Program of Study Code 5510 State CIP Code 0648050802
Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Mechanical Design & Fabrication Specialization Option (AS) degree (State CIP Code 1615000001).

Core Courses

PMT 0011 - Welder Helper

This course is an introductory course in welding covering basic of gas and arc welding, shop math, shop safety precaution and the use of safety procedures and protective equipment, practical and theoretical training in the use of shield metal arc welding (SMAW) and oxy-acetylene welding principles, practices and equipment.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0012 - Welder, Shielded Metal Arc

This course shielded metal arc welding(SMAW) principles to include visual examination skills, drawing and welding symbols, metal identification, arc cutting principles and practices, language and terminology, critical thinking skills, shop safety precaution, health, environmental management and regulatory compliance.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0011 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0013 - Welder, Gas-Metal Arc

This course covers gas metal arc welding (GMAW) principles to basic and intermediate skills development, information technology

tools, importance of ethical and legal responsibilities, and personal money management concepts, procedures and strategies.

Credit Hour(s): 125 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0012.

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0014 - Welder, Flux Cored Arc

This course covers flux core arc welding (FCAW) principles and skills development, organization roles, leader and team work development, employability and entrepreneurship skills.

Credit Hour(s): 100 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0013 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0015 - Welder, Gas-Tungsten Arc

This course covers gas tungsten arc welding (GTAW) principles and basic and intermediate skills development.

Credit Hour(s): 175 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0014 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0016 - Welder, Pipe

This course covers pipe welding principles and basic and intermediate skills development.

Credit Hour(s): 270 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0015

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 1170

Core Courses

PMT 0011 - Welder Helper

This course is an introductory course in welding covering basic of gas and arc welding, shop math, shop safety precaution and the use of safety procedures and protective equipment, practical and theoretical training in the use of shield metal arc welding (SMAW) and oxy-acetylene welding principles, practices and equipment.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0012 - Welder, Shielded Metal Arc

This course shielded metal arc welding(SMAW) principles to include visual examination skills, drawing and welding symbols, metal identification, arc cutting principles and practices, language and terminology, critical thinking skills, shop safety precaution, health, environmental management and regulatory compliance.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0011 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0013 - Welder, Gas-Metal Arc

This course covers gas metal arc welding (GMAW) principles to basic and intermediate skills development, information technology tools, importance of ethical and legal responsibilities, and personal money management concepts, procedures and strategies.

Credit Hour(s): 125 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0012.

Note:

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PMT 0014 - Welder, Flux Cored Arc

This course covers flux core arc welding (FCAW) principles and skills development, organization roles, leader and team work development, employability and entrepreneurship skills.

Credit Hour(s): 100 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0013 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0015 - Welder, Gas-Tungsten Arc

This course covers gas tungsten arc welding (GTAW) principles and basic and intermediate skills development.

Credit Hour(s): 175 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0014 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0016 - Welder, Pipe

This course covers pipe welding principles and basic and intermediate skills development.

Credit Hour(s): 270 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0015

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 1170

Core Courses

PMT 0011 - Welder Helper

This course is an introductory course in welding covering basic of gas and arc welding, shop math, shop safety precaution and the use of safety procedures and protective equipment, practical and theoretical training in the use of shield metal arc welding (SMAW) and oxy-acetylene welding principles, practices and equipment.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0012 - Welder, Shielded Metal Arc

This course shielded metal arc welding(SMAW) principles to include visual examination skills, drawing and welding symbols, metal identification, arc cutting principles and practices, language and terminology, critical thinking skills, shop safety precaution, health, environmental management and regulatory compliance.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0011 .

Note:

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PMT 0013 - Welder, Gas-Metal Arc

This course covers gas metal arc welding (GMAW) principles to basic and intermediate skills development, information technology tools, importance of ethical and legal responsibilities, and personal money management concepts, procedures and strategies.

Credit Hour(s): 125 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0012.

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0014 - Welder, Flux Cored Arc

This course covers flux core arc welding (FCAW) principles and skills development, organization roles, leader and team work

development, employability and entrepreneurship skills.

Credit Hour(s): 100 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0013 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0015 - Welder, Gas-Tungsten Arc

This course covers gas tungsten arc welding (GTAW) principles and basic and intermediate skills development.

Credit Hour(s): 175 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0014 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0016 - Welder, Pipe

This course covers pipe welding principles and basic and intermediate skills development.

Credit Hour(s): 270 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0015

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 1170

Architectural Design & Construction Technology (AS)

Admission Program Objective Code 2540 State CIP Code 1604090100

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

ARC 2303A - Design 2.1

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

ARC 2201 .

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 1272 - Blueprint Reading for Commercial Construction

A course to familiarize non-drafting students with techniques of blueprint reading and the fundamentals of construction methods that make blueprint reading meaningful.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EGN 1111C - Engineering Graphics

Covers the use of instruments, lettering practice; geometric construction; multiview projection and conventions, auxiliary views, section views, axonometric and oblique projections, rotation, patterns and development, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1102 or equivalent: prerequisite only applies to Architectural Drafting and Design students.

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1320C - AutoCAD I

A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

TAR 2121C - Architectural Drafting

Architectural design and development of residential and light commercial buildings to include: development and construction of good architectural freehand lettering, VA and FHA approved residential house plans, “Good Sense” house plans as defined in the Arkansas Plan, and heat loss/heat gain calculations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 1102 or ETD 1112 or equivalent.

Total Core Credits Required: 27

Total Core Credits Required: 27

Total Core Credits Required: 27

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

ARC 2303A - Design 2.1

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):
ARC 2201 .

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 1272 - Blueprint Reading for Commercial Construction

A course to familiarize non-drafting students with techniques of blueprint reading and the fundamentals of construction methods that make blueprint reading meaningful.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EGN 1111C - Engineering Graphics

Covers the use of instruments, lettering practice; geometric construction; multiview projection and conventions, auxiliary views, section views, axonometric and oblique projections, rotation, patterns and development, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1102 or equivalent: prerequisite only applies to Architectural Drafting and Design students.

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1320C - AutoCAD I

A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

TAR 2121C - Architectural Drafting

Architectural design and development of residential and light commercial buildings to include: development and construction of good architectural freehand lettering, VA and FHA approved residential house plans, “Good Sense” house plans as defined in the Arkansas Plan, and heat loss/heat gain calculations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or ETD 1112 or equivalent.

Total Core Credits Required: 27

Total Core Credits Required: 27

Total Core Credits Required: 27

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Technical Elective Courses

ARC 1131 - Architectural Presentation

This course introduces basic ideas and presentation techniques directed towards developing design skills, such as drawing, perspective sketching, and graphics using a variety of media to include: pencil, ink, colored pencils, markers, and model building to

be used in architectural presentations. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Summer)

ARC 2201 - Theory of Architecture

An introduction to architectural theory, selected contemporary architectural theories and movements, and their evolution and historical basis. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1102 .

ARC 2304 - Design 2.2

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making, and human behavior.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

ARC 2303A .

BCN 1520 - Electrical Systems in Construction

A course to familiarize students with electrical terminology, practices, methods, code requirements and safety and health in construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 1567 - Plumbing and Gas Construction Practices

A course to familiarize students with Plumbing and Gas code requirements, terminology, methods, practices, processes and safety and health used in building construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 2231 - Building Construction Materials and Processes II

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

BCN 2560 - Mechanical Systems in Construction

A course to familiarize students with mechanical trades terminology, methods, practices, code requirements processes, and safety and health criteria in mechanical construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 2721 - Construction Management/Planning

The course covers project development and organization from pre-construction site investigation to final completion. The course will include the management of project estimates, plans, schedules, operations and safety. The student will become knowledgeable about documents used in the construction industry for bid, contracts, zoning, permits, bonds, loans specifications and drawings. Cost engineering, procurement, value engineering and quality assurance will be covered. Cost management through job cost analysis and purchase order systems will also be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 1763 - Construction Safety and Health

A basic course in construction safety and health, covering such topics as: theories of accident causation; workplace hazards; hazard analysis and prevention; accident reporting; OSHA construction standard and safety practices; environmental safety; violence in the workplace; ergonomics; ethics and safety; workers' compensation; and stress on the job.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 2761 - Structural Systems in Construction

A course to familiarize students with structural terminology, practices, methods, code requirements and safety, and health criteria in construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 2770 - Construction Estimating

A course in estimating as it relates to the construction industry covering references, estimating methods, take-off organization and presentation; material take-off, cost estimating in heavy construction, mathematical formulas for estimating, quantity take-off from plan review, and computer estimating overview.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

BCN 1230 , BCN 1272 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EGN 1130C - Descriptive Geometry

Covers basic principles of orthographic projection, auxiliary views and rotation as they apply to points, lines and planes in space; addition of coplanar and non-coplanar vectors; intersections and developments; and selected abstract, exponometric and oblique projection, and practical problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

EGN 1111C or equivalent.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2350C - AutoCAD III

An advanced course designed to help students develop proficiency in the area of computer aided drafting and systems drafting. Topics covered include: transfer drawings, digitized drawings, explanatory drawings, multiview projections, exploded assemblies, pictorial drawings, auxiliary views, sections, details, geometric dimensioning and tolerancing, and CADD concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2377C - 3D Studio Max I

Course is designed to use 3D Studio in rendering, and animation as a dynamic visualization tool for AutoCAD design images. Upon completion of this course, the user will be able to navigate through the modules of the program, model simple projects, set up scenes for rendering and animation, assign materials to objects, and define simple motion paths, input and output techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2542 - Structural Drafting

A course in the fundamentals of structural drafting including: an overview of structural drafting, prestressed concrete drafting, structural steel drafting, and poured on-site concrete drafting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

TAR 2121C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2543C - Structural Drafting II

An advanced course in structural drafting covering prestressed concrete drafting, structural steel drafting, and poured-on-site concrete drafting for large commercial and industrial buildings as well as bridges, parking decks, towers, and stadiums.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2542 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GIS 1040C - Introduction to Geographic Information Systems

This course will provide students with an introduction to Geographic Information Systems (GIS). Lectures will include: what is GIS, GIS applications, fundamentals such as map projections, vector versus raster data models, creating and maintaining geographic databases, spatial analysis and modeling, cartography and map production. Lab sessions will include the hands on use of the ArcGIS software. Students will receive a 180-day version of the software with their textbook that they can use at home to complete assignments.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

moderate familiarity with the Windows operating system, preferably XP.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

ARC 2303A - Design 2.1

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

ARC 2201 .

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 1272 - Blueprint Reading for Commercial Construction

A course to familiarize non-drafting students with techniques of blueprint reading and the fundamentals of construction methods that make blueprint reading meaningful.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EGN 1111C - Engineering Graphics

Covers the use of instruments, lettering practice; geometric construction; multiview projection and conventions, auxiliary views, section views, axonometric and oblique projections, rotation, patterns and development, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1102 or equivalent: prerequisite only applies to Architectural Drafting and Design students.

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1320C - AutoCAD I

A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

TAR 2121C - Architectural Drafting

Architectural design and development of residential and light commercial buildings to include: development and construction of good architectural freehand lettering, VA and FHA approved residential house plans, “Good Sense” house plans as defined in the Arkansas Plan, and heat loss/heat gain calculations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 1102 or ETD 1112 or equivalent.

Total Core Credits Required: 27

Total Core Credits Required: 27

Total Core Credits Required: 27

Total Program Credits Required: 66

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total Program Credits Required: 66

Technical Elective Courses

ARC 1131 - Architectural Presentation
This course introduces basic ideas and presentation techniques directed towards developing design skills, such as drawing, perspective sketching, and graphics using a variety of media to include: pencil, ink, colored pencils, markers, and model building to be used in architectural presentations. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Summer)

ARC 2201 - Theory of Architecture
An introduction to architectural theory, selected contemporary architectural theories and movements, and their evolution and historical basis. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ETD 1102 .

ARC 2304 - Design 2.2
Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making, and human behavior.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

ARC 2303A .

BCN 1520 - Electrical Systems in Construction

A course to familiarize students with electrical terminology, practices, methods, code requirements and safety and health in construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 1567 - Plumbing and Gas Construction Practices

A course to familiarize students with Plumbing and Gas code requirements, terminology, methods, practices, processes and safety and health used in building construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 2231 - Building Construction Materials and Processes II

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

BCN 2560 - Mechanical Systems in Construction

A course to familiarize students with mechanical trades terminology, methods, practices, code requirements processes, and safety and health criteria in mechanical construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 2721 - Construction Management/Planning

The course covers project development and organization from pre-construction site investigation to final completion. The course will include the management of project estimates, plans, schedules, operations and safety. The student will become knowledgeable about documents used in the construction industry for bid, contracts, zoning, permits, bonds, loans specifications and drawings. Cost engineering, procurement, value engineering and quality assurance will be covered. Cost management through job cost analysis and purchase order systems will also be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 1763 - Construction Safety and Health

A basic course in construction safety and health, covering such topics as: theories of accident causation; workplace hazards; hazard analysis and prevention; accident reporting; OSHA construction standard and safety practices; environmental safety; violence in the workplace; ergonomics; ethics and safety; workers' compensation; and stress on the job.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 2761 - Structural Systems in Construction

A course to familiarize students with structural terminology, practices, methods, code requirements and safety, and health criteria in construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 2770 - Construction Estimating

A course in estimating as it relates to the construction industry covering references, estimating methods, take-off organization and presentation; material take-off, cost estimating in heavy construction, mathematical formulas for estimating, quantity take-off from plan review, and computer estimating overview.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

BCN 1230 , BCN 1272 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the

study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EGN 1130C - Descriptive Geometry

Covers basic principles of orthographic projection, auxiliary views and rotation as they apply to points, lines and planes in space; addition of coplanar and non-coplanar vectors; intersections and developments; and selected abstract, exponometric and oblique projection, and practical problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

EGN 1111C or equivalent.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2350C - AutoCAD III

An advanced course designed to help students develop proficiency in the area of computer aided drafting and systems drafting. Topics covered include: transfer drawings, digitized drawings, explanatory drawings, multiview projections, exploded assemblies, pictorial drawings, auxiliary views, sections, details, geometric dimensioning and tolerancing, and CADD concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2377C - 3D Studio Max I

Course is designed to use 3D Studio in rendering, and animation as a dynamic visualization tool for AutoCAD design images. Upon completion of this course, the user will be able to navigate through the modules of the program, model simple projects, set up scenes for rendering and animation, assign materials to objects, and define simple motion paths, input and output techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2542 - Structural Drafting

A course in the fundamentals of structural drafting including: an overview of structural drafting, prestressed concrete drafting, structural steel drafting, and poured on-site concrete drafting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

TAR 2121C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2543C - Structural Drafting II

An advanced course in structural drafting covering prestressed concrete drafting, structural steel drafting, and poured-on-site concrete drafting for large commercial and industrial buildings as well as bridges, parking decks, towers, and stadiums.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2542 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GIS 1040C - Introduction to Geographic Information Systems

This course will provide students with an introduction to Geographic Information Systems (GIS). Lectures will include: what is GIS, GIS applications, fundamentals such as map projections, vector versus raster data models, creating and maintaining geographic databases, spatial analysis and modeling, cartography and map production. Lab sessions will include the hands on use of the ArcGIS software. Students will receive a 180-day version of the software with their textbook that they can use at home to complete assignments.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

moderate familiarity with the Windows operating system, preferably XP.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Program Credits Required: 66

Audio Technology (Recording Arts) (CCC)

Admission Program of Study Code 6560 State CIP Code 0650060209

Students who successfully complete this program may apply these credits to the Music Production Technology (AS) degree (State CIP Code 1650091300).

Core Courses

MUM 2300 - Introduction to the Music Industry

This course is an introduction to the history, principles, and practices of the music industry. Topics will include music publishing, copyright, distribution, industry organization, producing, and general business functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MUM 2600 - Recording Techniques I

This course is designed as an introduction to basic audio engineering and studio practices. Listening exercises, phychoacoustics, microphone characteristics, and studio etiquette will be studied. In addition the student will study techniques and practices and procedures of multi-track recording, acoustical balancing, editing, and over dubbing in a variety of situations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MUM 1620 .

MUM 2601 - Recording Techniques II

This course explores advanced multi-track recording skills and audio production techniques, edits, use of outboard equipment and

live multi-track recording.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MUM 1620 , MUM 2600 .

MUM 2604 - Multi-Track Mixdown (Post Production)
____ ____ Other Approved College Credits (MUL, MUM, MUN, MUS, MUT, MVB, MVK, MVP, MVS, MVV, MVW) 3 Credit Hours

This course explores the application of signal processing equipment as it relates to multi-track master mixdowns. In addition, software and hardware application of mixdown is applied to post-production practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MUM 1620 , MUM 2600 , MUM 2601 .

Total Program Credits Required: 15

Total Program Credits Required: 15

AutoCAD Foundations (CCC)

Admission Program of Study Code 6052 State CIP Code 0615130204
Students who successfully complete this certificate may be eligible to receive credits towards the Drafting and Design Technology (AS) degree (State CIP Code 1615130102).

Core Courses

ETD 1102 - Introduction to Technical Drawing
A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1320C - AutoCAD I
A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1102 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1340C - AutoCAD II
The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1320C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2350C - AutoCAD III

An advanced course designed to help students develop proficiency in the area of computer aided drafting and systems drafting. Topics covered include: transfer drawings, digitized drawings, explanatory drawings, multiview projections, exploded assemblies, pictorial drawings, auxiliary views, sections, details, geometric dimensioning and tolerancing, and CADD concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 15

Auxiliary Law Enforcement Officer Basic (PSAV)

Admission Program of Study Code 5094 State CIP Code 0743010701
Entry into Criminal Justice Certificate Programs requires meeting the standards as established by the Criminal Justice Standards and Training Commission and the Florida Department of Law Enforcement for employment. A copy of these requirements will be furnished by the Public Safety Division at NWFSC.

Core Courses

CJK 0020 - Law Enforcement CMS Vehicle Operations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply vehicle operations knowledge, principles and techniques to the police driving environment. This course includes classroom instruction and practical application on the driving range. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0031 - CMS First Aid for Criminal Justice Officers

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply first responder knowledge and techniques to medical emergency situations. This course includes classroom instruction and hands-on practical demonstration. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college

credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0040 - CMS Firearms

This course is a component of the Law Enforcement/Corrections Florida CMS Basic Recruit Academy. This course is designed to give the student basic skills and knowledge needed to safely operate a firearm, and shoot a handgun, and shotgun and/or rifle with a prescribed degree of accuracy. This course includes classroom instruction and firing range practice/qualification. This course is open only to students admitted to the Law Enforcement Florida CMS or Corrections Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0051 - Defensive Tactics

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare prospective officers to control subjects and defend themselves using appropriate defensive tactics in accordance with Florida State Statue, the United States Constitution, and case law. This course includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0240 - Law Enforcement Auxiliary Introduction

This course is a component of the Law Enforcement Auxiliary Basic Recruit Academy. It introduces the student to the criminal justice system. It also introduces an understanding of ethics and professionalism required by a law enforcement auxiliary officer as well as the daily functions to be conducted by an auxiliary officer. This course is open only to students admitted to the Law Enforcement Auxiliary CMS Basic Recruit Academy.

Credit Hour(s): 27 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0241 - Law Enforcement Auxiliary Patrol and Traffic

This course is a component of the Law Enforcement Auxiliary Basic Recruit Academy. It introduces the student to the basic rules for responding to calls, making arrests, and transporting prisoners. It also helps students understand how to direct traffic, enforce citations and maintain crowd control. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0242 - Law Enforcement Auxiliary Investigations

This course is a component of the Law Enforcement Auxiliary Florida Basic Recruit Academy. It introduces the student to the basic rules for responding, protecting and processing a crime scene. It also introduces how to conduct an investigation and give a testimony in court. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Auxiliary Florida Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0422 - Dart-Firing Stun Gun

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare students in the proper use of the Dart Firing Stun in accordance with the Florida State Statutes, the United States Constitution, and case law. It includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 9 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 333

Total Program Hours Required: 333

Business Administration (AS)

Admission Program of Study Code 2380 State CIP Code 1552020102
Students who successfully complete selected courses from this program of study may be eligible to receive the Business Management (CCC) (State CIP Code 0552070101) and/or Business Specialist (Marketing) (CCC) (State CIP Code 0552020103) college credit certificates.

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner’s equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Core Credits Required: 24

Total Core Credits Required: 24

Technical Elective Courses

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

BUL 2242 - Business Law II

Course context explores laws relative to negotiable instruments, agency, partnerships, (includes study of Uniform Partnership Act), corporation law, creditors rights, consumer protection and insurance. Based on Uniform Commercial Code.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

GEB 1940 - Internship - Business (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HFT 1000 - Introduction to Hospitality Management

This course is an overview of the hospitality industry, and the many different segments of the hospitality and tourism segments are discussed. Scope, size and industry trends are examined. Theories, examples and industry case studies are used to provide students with examples of problem solving tools of management. Basic industry terminology and management concepts are studied. The important role of service is stressed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

MAN 2300 - Personnel Management

An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAR 2011 - Introduction to Marketing

An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MKA 2021 - Professional Selling

Selling, correct attitudes and personal attributes for dealing with the public on a business or professional basis.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MKA 2041 - Retail Management

This course covers retail store management, location, buying merchandise, control policies, services, pricing, expenses, profits, training and supervision of retail sales forces, and administrative problems. Also includes a variety of current perspectives in retailing management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MKA 2511 - Introduction to Advertising

Advertising as a marketing tool, its planning, creation, and use. A survey of copy writing, layout, and media (newspapers, magazines, radio, television, films, etc.)

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

____ ____ Other Approved College Credits _

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

Total Technical Elective Credits Required: 22

Total Technical Elective Credits Required: 22

Total Program Credits Required: 64

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Business Management (CCC)

Admission Program of Study Code 6381 State CIP Code 0552070101
Students who successfully complete this certificate may be eligible to receive credits toward the Business Administration (AS) degree (CIP Code 1552020102).

Core Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
although not required, MTB 1103 is highly recommended.

Note:
▲Technology-Across-the-Curriculum Course.

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical

managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Core Credits Required: 12

Technical Elective Courses

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ACG 2011 .

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 or competency exam.

Note:
▲Technology-Across-the-Curriculum Course.

GEB 1940 - Internship - Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
permission of the instructor

Note:
This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies

associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2300 - Personnel Management

An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

OST 2335 - Business Communications

____ ____ Other Business/College Credit Elective(s) 1-9 Credit Hours

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

Total Technical Elective Credits Required: 12

Total Technical Elective Credits Required: 12

Total Program Credits Required: 24

Total Program Credits Required: 24

Business Specialist (Marketing) (CCC)

Admission Program of Study Code 6382 State CIP Code 0552020103 Students who successfully complete this certificate may be eligible to receive credits toward the Business Administration (AS) degree (CIP Code 1552020102).

Core Courses

MAR 2011 - Introduction to Marketing

An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MKA 2021 - Professional Selling

Selling, correct attitudes and personal attributes for dealing with the public on a business or professional basis.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MKA 2041 - Retail Management

This course covers retail store management, location, buying merchandise, control policies, services, pricing, expenses, profits, training and supervision of retail sales forces, and administrative problems. Also includes a variety of current perspectives in retailing management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MKA 2511 - Introduction to Advertising

Advertising as a marketing tool, its planning, creation, and use. A survey of copy writing, layout, and media (newspapers, magazines, radio, television, films, etc.)

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Program Credits Required: 12

Total Program Credits Required: 12

Child Care Center Management Specialization (CCC)

Admission Program of Study Code 6021 State CIP Code 0419070906

Students who successfully complete this certificate may be eligible to receive credits towards the Early Childhood Education (AS) degree (State CIP Code 1413121003).

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1002 - Early Childhood Program Administration

This course provides the student with management and administrative skills related to child care services. Instruction includes: director responsibilities; staff selection, supervision, and evaluation; planning for budget, nutritional services, facility maintenance, health, and safety; and marketing techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

Total Program Credits Required: 12

Total Program Credits Required: 12

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social,

emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1002 - Early Childhood Program Administration

This course provides the student with management and administrative skills related to child care services. Instruction includes: director responsibilities; staff selection, supervision, and evaluation; planning for budget, nutritional services, facility maintenance, health, and safety; and marketing techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

Total Program Credits Required: 12

Total Program Credits Required: 12

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1002 - Early Childhood Program Administration

This course provides the student with management and administrative skills related to child care services. Instruction includes: director responsibilities; staff selection, supervision, and evaluation; planning for budget, nutritional services, facility maintenance, health, and safety; and marketing techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

Total Program Credits Required: 12

Total Program Credits Required: 12

Child Development Early Intervention (CCC)

Admission Program of Study Code 6020 State CIP Code 0419070904
Students who successfully complete this certificate may be eligible to receive credits towards the Early Childhood Education (AS) degree (State CIP Code 1413121003).

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1002 - Early Childhood Program Administration

This course provides the student with management and administrative skills related to child care services. Instruction includes: director responsibilities; staff selection, supervision, and evaluation; planning for budget, nutritional services, facility maintenance, health, and safety; and marketing techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1201 - Infants and Toddlers

This course provides the student with information pertinent to the care of infants and toddlers. Special attention is given to selection of developmentally appropriate curriculum. Course work satisfies the Child Development Associate competency standards for Infant/Toddler.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

EEC 1601 - Assessment in Early Childhood Education

Designed to increase objectivity and proficiency in observing and interpreting children’s behavior in addition to increase awareness of normative patterns of children from birth through five years of age.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EEC 1750 - Guidance for Young Children

A study of principles, methods, guidance and discipline techniques used to promote positive social development in young children; influence of environment and developmental level of child on social behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student’s OJT objectives based on student’s goals and prior training. The supervisor will rate the student’s performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:
DEP 2100 , and EEC 1309 or EEC 1201 .

EEC 2220 - Language and Literacy Instruction In Early Childhood Education

Study of the principles, methods, and materials used to assist young children acquire basic skills to use language effectively and competently; evaluation and development of appropriate teaching materials to use with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

EEC 1309 .

EEC 2222 - Math and Science Instruction In Early Childhood Education

Study of the basic concepts, methods, and materials of mathematics and science appropriate to the education of young children. Identification of the role of staff members in the center for the education of young children. Assignment with young children in community agencies.

Credit Hour(s): 3 Credit Hours When Offered: (Spring and as needed) Prerequisite(s):

EEC 1309 .

EEC 2732 - Child Nutrition, Health and Safety

Methods of meeting physical needs of young children through nutrition and good health practices. Recognition of childhood diseases and care of the handicapped child.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Core Credits Required: 36

Total Core Credits Required: 36

Total Program Credits Required: 36

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1002 - Early Childhood Program Administration

This course provides the student with management and administrative skills related to child care services. Instruction includes: director responsibilities; staff selection, supervision, and evaluation; planning for budget, nutritional services, facility maintenance, health, and safety; and marketing techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1201 - Infants and Toddlers

This course provides the student with information pertinent to the care of infants and toddlers. Special attention is given to selection of developmentally appropriate curriculum. Course work satisfies the Child Development Associate competency standards for Infant/Toddler.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

EEC 1601 - Assessment in Early Childhood Education

Designed to increase objectivity and proficiency in observing and interpreting children's behavior in addition to increase awareness of normative patterns of children from birth through five years of age.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EEC 1750 - Guidance for Young Children

A study of principles, methods, guidance and discipline techniques used to promote positive social development in young children; influence of environment and developmental level of child on social behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:

DEP 2100 , and EEC 1309 or EEC 1201 .

EEC 2220 - Language and Literacy Instruction In Early Childhood Education

Study of the principles, methods, and materials used to assist young children acquire basic skills to use language effectively and competently; evaluation and development of appropriate teaching materials to use with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

EEC 1309 .

EEC 2222 - Math and Science Instruction In Early Childhood Education

Study of the basic concepts, methods, and materials of mathematics and science appropriate to the education of young children. Identification of the role of staff members in the center for the education of young children. Assignment with young children in community agencies.

Credit Hour(s): 3 Credit Hours When Offered: (Spring and as needed) Prerequisite(s):

EEC 1309 .

EEC 2732 - Child Nutrition, Health and Safety

Methods of meeting physical needs of young children through nutrition and good health practices. Recognition of childhood diseases and care of the handicapped child.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Core Credits Required: 36

Total Core Credits Required: 36

Total Program Credits Required: 36

CNC Machinist/Fabricator (CCC)

Admission Program of Study Code 6010 State CIP Code 0648051002
Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Mechanical Design & Fabrication Specialization Option (AS) degree (State CIP Code 1615000001).

Core Courses

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Program Credits Required: 12

Total Program Credits Required: 12

Total Program Credits Required: 12

Core Courses

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Program Credits Required: 12

Total Program Credits Required: 12

Total Program Credits Required: 12

Computer Engineering Technology (AS)

Admission Program of Study Code 2140 State CIP Code 1615120100
Students who successfully complete selected courses from this program of study may be eligible to receive the Microcomputer Repair/Installer (CCC) (State CIP Code 0647010406) college credit certificate.

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total Program Credits Required: 68

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2172C - Microcomputer Servicing

This course introduces the PC system, how it works and how the operating system controls it. Also studied are the components which make up the PC system, how to use multimeters and logic probes to make measurements and troubleshoot the system with the aid of diagnostic software. Students will perform fault analysis of simulated PC defects. In addition, students will learn to disassemble, reassemble and modify the PC hardware components.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

COP ___ Programming (VBasic, C, etc.) 3 Credit Hours

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 19

Technical Elective Courses

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2854C - Fundamentals of Wireless LANs

Develop, implement and troubleshoot wireless networks. This hands-on, skill-based course focuses on the design, planning and operation of wireless networks, with an overview of technologies, security, and design best practices. This course helps prepare the student for the CISCO Wireless Certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2940 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit

report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2941 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2942 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

COP ____ Programming 3 Credit Hours

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application

development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETG 1941 - Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ Other Approved College Credits _

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 31

Total Technical Elective Credits Required: 31

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2172C - Microcomputer Servicing

This course introduces the PC system, how it works and how the operating system controls it. Also studied are the components which make up the PC system, how to use multimeters and logic probes to make measurements and troubleshoot the system with the aid of diagnostic software. Students will perform fault analysis of simulated PC defects. In addition, students will learn to disassemble, reassemble and modify the PC hardware components.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

COP ___ Programming (VBasic, C, etc.) 3 Credit Hours

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
recommended level of knowledge: Windows 7 configuring.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 19

Total Program Credits Required: 68

Computer Information Technology (AS)

Admission Program Objective Code 2040 State CIP Code 1511010305

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 24

Total Core Credits Required: 24

Technical Elective Courses

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2440 - Introduction to Oracle

An introduction to Oracle and the design and creation of relational databases (using Oracle). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, Functions, Packages and Triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

GEB 1940 - Internship - Business (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ Other Approved College Credits _

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of "C" or better in MAC 1140 or a course in programming.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total Program Credits Required: 63

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 or competency exam.

Note:
▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic
General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming
This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows
An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology
This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 24

Total Core Credits Required: 24

Technical Elective Courses

CGS 2541 - Introduction to Database Concepts
This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 .

Note:
▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts
The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential

solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 , CGS 2541 .

Note:
▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Permission of the instructor.

Note:
This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2010 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2440 - Introduction to Oracle

An introduction to Oracle and the design and creation of relational databases (using Oracle). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, Functions, Packages and Triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

GEB 1940 - Internship - Business (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ Other Approved College Credits _

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Program Credits Required: 63

Computer Programmer (CCC)

Admission Program of Study Code 6045 State CIP Code 0511020200
Students who successfully complete this certificate may be eligible to receive credits towards the Computer Programming and Analysis (AS) degree (State CIP Code 1511020100).

Core Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2800 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 21

Total Core Credits Required: 21

Total Core Credits Required: 21

Total Core Credits Required: 21

Total Core Credits Required: 21

Total Program Credits Required: 33

Technical Elective Courses

CGS 2820 - Web Design
This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000

Note:
▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)
This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Permission of the instructor.

Note:
This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2220 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 12

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2220 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 12

Total Program Credits Required: 33

Core Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2800 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 21

Total Core Credits Required: 21

Total Core Credits Required: 21

Total Core Credits Required: 21

Total Core Credits Required: 21

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2220 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 2820 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 12

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000

Note:
▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)
This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Permission of the instructor.

Note:
This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic
This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2010 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C
An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2220 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++
An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2224 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)
An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)
This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for

development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 12

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting

techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2220 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of

the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 12

Total Program Credits Required: 33

Computer Programming and Analysis (AS)

Admission Program Objective Code 2045 State CIP Code 1511020100
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Computer Programmer (CCC) (State CIP Code 0511020200) and/or Computer Programming Specialist (CCC) (State CIP Code 0511020103).

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics

or

___ ____ - Higher level mathematics 3 Credits

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

Total Core Credits Required: 27

Technical Elective Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students’ understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2176 - Visual Basic ADO.Net

The aim of this course is to provide an advanced level of knowledge in database programming using Visual Basic's ADO.Net, using normalization, object and relational types, modeling, data validation, and structured query language (SQL) in creating database

applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2541 , CGS 2544 , COP 1000 , COP 2010 , and COP 2011 .

Corequisite(s):

CGS 2544 , COP 2011 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2220 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 2820 .

Note:
▲Technology-Across-the-Curriculum Course.

CTS 2440 - Introduction to Oracle
An introduction to Oracle and the design and creation of relational databases (using Oracle). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, Functions, Packages and Triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 , CGS 2541 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics
____ ____ Other Approved College Credits _
This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
a grade of “C” or better in MAC 1140 or a course in programming.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Technical Elective Courses

CET 1660 - Introduction to Network Security
This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-

Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2010 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2176 - Visual Basic ADO.Net

The aim of this course is to provide an advanced level of knowledge in database programming using Visual Basic's ADO.Net, using normalization, object and relational types, modeling, data validation, and structured query language (SQL) in creating database applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 2541 , CGS 2544 , COP 1000 , COP 2010 , and COP 2011 .

Corequisite(s):
CGS 2544 , COP 2011 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2220 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2440 - Introduction to Oracle

An introduction to Oracle and the design and creation of relational databases (using Oracle). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, Functions, Packages and Triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ Other Approved College Credits _

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of "C" or better in MAC 1140 or a course in programming.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Core Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics

or

___ ____ - Higher level mathematics 3 Credits

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

Total Core Credits Required: 27

Total Program Credits Required: 63

Total Program Credits Required: 63

Core Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++
An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++
An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2224 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming
An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming
An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2800 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics
or
___ ____ - Higher level mathematics 3 Credits
This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
a grade of “C” or better in MAC 1140 or a course in programming.

Total Core Credits Required: 27

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Computer Programming Specialist (CCC)

Admission Program of Study Code 6046 State CIP Code 0511020103
Students who successfully complete this certificate may be eligible to receive credits towards the Computer Programming and Analysis (AS) degree (State CIP Code 1511020100).

Core Courses

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 9

Total Core Credits Required: 9

Total Core Credits Required: 9

Total Core Credits Required: 9

Total Core Credits Required: 9

Total Core Credits Required: 9

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2220 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2224 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 9

Total Program Credits Required: 18

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit

report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2220 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 9

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic’s internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2010 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2220 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2224 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 9

Total Program Credits Required: 18

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2220 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 9

Computer-Aided Design and Drafting (CCC)

Admission Program of Study Code 6011 State CIP Code 0615130304
Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Digital Design & Modeling Specialization Option (AS) degree (State CIP Code 1615000001).

Core Courses

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2350C - AutoCAD III

An advanced course designed to help students develop proficiency in the area of computer aided drafting and systems drafting. Topics covered include: transfer drawings, digitized drawings, explanatory drawings, multiview projections, exploded assemblies, pictorial drawings, auxiliary views, sections, details, geometric dimensioning and tolerancing, and CADD concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

ETD 2357C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 24

Total Program Credits Required: 24

Correctional Officer (Basic) (PSAV)

Admission Program of Study Code 5091 State CIP Code 0743010200
Entry into Criminal Justice Certificate Programs requires meeting the standards as established by the Criminal Justice Standards and Training Commission and the Florida Department of Law Enforcement for employment. A copy of these requirements will be furnished by the Public Safety Division at NWFSC.

Core Courses

CJK 0031 - CMS First Aid for Criminal Justice Officers

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply first responder knowledge and techniques to medical emergency situations. This course includes classroom instruction and hands-on practical demonstration. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0040 - CMS Firearms

This course is a component of the Law Enforcement/Corrections Florida CMS Basic Recruit Academy. This course is designed to give the student basic skills and knowledge needed to safely operate a firearm, and shoot a handgun, and shotgun and/or rifle with a prescribed degree of accuracy. This course includes classroom instruction and firing range practice/qualification. This course is open only to students admitted to the Law Enforcement Florida CMS or Corrections Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0051 - Defensive Tactics

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare prospective officers to control subjects and defend themselves using appropriate defensive tactics in accordance with Florida State Statue, the United States Constitution, and case law. This course includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096A - Criminal Justice Physical Fitness I

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit

Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096B - Criminal Justice Physical Fitness II

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0300 - Introduction to Corrections

This course introduces students to the legal and ethical responsibilities of a correctional officer. Legal terms and definitions are explained. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0305 - CJSTC Communications

This course covers the entire report writing process. Topics include interview and interrogation, interpersonal communication, and practical exercises. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0310 - Officer Safety

Correctional officer safety procedures are learned. Students will learn to identify potential hazards and learn how to safely respond. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0315 - Facility and Equipment

Students learn the appropriate procedures for inspecting a correctional facility and equipment. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college

credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0320 - Intake and Release

Students learn the appropriate procedures for admitting and releasing inmates in a correctional facility. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0325 - Supervising in a Correctional Facility

Students learn the appropriate procedures for supervising inmates in a correctional facility. They also learn to detect crimes and rule violations in various correctional facility settings. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0330 - Supervising Special Populations

Students learn how to identify and supervise special population groups, such as threat groups, juveniles, elderly, and mentally ill inmates. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0335 - Responding to Incidents and Emergencies

Students learn how to identify and respond to situations involving escapes, riots, bomb threats, fires, and medical emergencies in a correctional facility. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 450

Core Courses

CJK 0031 - CMS First Aid for Criminal Justice Officers

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply first responder knowledge and techniques to medical emergency situations. This course includes classroom instruction and hands-on practical demonstration. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0040 - CMS Firearms

This course is a component of the Law Enforcement/Corrections Florida CMS Basic Recruit Academy. This course is designed to give the student basic skills and knowledge needed to safely operate a firearm, and shoot a handgun, and shotgun and/or rifle with a prescribed degree of accuracy. This course includes classroom instruction and firing range practice/qualification. This course is open only to students admitted to the Law Enforcement Florida CMS or Corrections Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0051 - Defensive Tactics

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare prospective officers to control subjects and defend themselves using appropriate defensive tactics in accordance with Florida State Statue, the United States Constitution, and case law. This course includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096A - Criminal Justice Physical Fitness I

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096B - Criminal Justice Physical Fitness II

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0300 - Introduction to Corrections

This course introduces students to the legal and ethical responsibilities of a correctional officer. Legal terms and definitions are

explained. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0305 - CJSTC Communications

This course covers the entire report writing process. Topics include interview and interrogation, interpersonal communication, and practical exercises. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0310 - Officer Safety

Correctional officer safety procedures are learned. Students will learn to identify potential hazards and learn how to safely respond. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0315 - Facility and Equipment

Students learn the appropriate procedures for inspecting a correctional facility and equipment. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0320 - Intake and Release

Students learn the appropriate procedures for admitting and releasing inmates in a correctional facility. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0325 - Supervising in a Correctional Facility

Students learn the appropriate procedures for supervising inmates in a correctional facility. They also learn to detect crimes and rule violations in various correctional facility settings. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take

advantage of this opportunity.

CJK 0330 - Supervising Special Populations

Students learn how to identify and supervise special population groups, such as threat groups, juveniles, elderly, and mentally ill inmates. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0335 - Responding to Incidents and Emergencies

Students learn how to identify and respond to situations involving escapes, riots, bomb threats, fires, and medical emergencies in a correctional facility. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 450

Criminal Justice Technology (AS)

Admission Program of Study Code 2090 State CIP Code 1743010300

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

CCJ 1010 - Introduction to Criminology

A study of the nature and causes of crime and delinquency; the development of delinquent and criminal behavior; theory development in criminology, crime rates and trends, victimology and particular crime pattern areas.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CJL 1100 - Criminal Law

Includes the study of the fundamentals of Criminal Law to include historical background and development, jurisdiction, the criminal act and responsibility, as well as, classification and analysis of Florida Statutes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CJL 1400 - Criminal Procedure

Includes the study of the fundamentals of constitutional, criminal and civil law; principles, duties and mechanics of criminal procedures in Florida as applied to arrest, search, seizure, and court processing; and a functional analysis of the rules of evidence in court procedures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CJL 2500 - Courts and the Judicial Process

This course is designed to teach the student the major structures and basic legal concepts of the American criminal court system. The students shall learn the components, personnel, and inherent social issues in our present criminal court system.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 15

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

CCJ 1010 - Introduction to Criminology

A study of the nature and causes of crime and delinquency; the development of delinquent and criminal behavior; theory development in criminology, crime rates and trends, victimology and particular crime pattern areas.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CJL 1100 - Criminal Law

Includes the study of the fundamentals of Criminal Law to include historical background and development, jurisdiction, the criminal act and responsibility, as well as, classification and analysis of Florida Statutes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CJL 1400 - Criminal Procedure

Includes the study of the fundamentals of constitutional, criminal and civil law; principles, duties and mechanics of criminal procedures in Florida as applied to arrest, search, seizure, and court processing; and a functional analysis of the rules of evidence

in court procedures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CJL 2500 - Courts and the Judicial Process

This course is designed to teach the student the major structures and basic legal concepts of the American criminal court system. The students shall learn the components, personnel, and inherent social issues in our present criminal court system.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 15

Technical Elective Courses

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CCJ 1941 - Internship – Criminal Justice

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJC 2000 - Introduction to Corrections

Theories of punishment and incarceration; the organization of correction programs and institutions, principles of probation and parole, role of parole and probation officers, legal implications; and problems of rehabilitation are covered. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJE 2600 - Criminal Investigations

Fundamentals of investigation; duties and responsibilities of the detective; interrogation techniques; search and techniques of protecting the crime scene; collection and preservation of evidence; modus operandi systems; scientific aids and other sources of information; court preparation and case follow-up.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJJ 1002 - Juvenile Delinquency

A study of the nature and cause of juvenile delinquency, the development of the delinquent and criminal behavior, specific criminal justice subsystem (law enforcement, judicial, corrections) problems dealing with juvenile delinquents from initial contact through final disposition and treatment. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1801 - Introduction to Emergency Management

This course will discuss emergency management practices and how they relate to natural and man-made disasters. It is designed to help the student develop an understanding of overall emergency management principles, practices, and standards in the local, national, and international environments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2820 - Emergency Preparedness

This course teaches all aspects of emergency preparedness and planning related to natural and man-made disasters, and basic principles of emergency management. Planning concepts and the planning process will be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GIS 1040C - Introduction to Geographic Information Systems

This course will provide students with an introduction to Geographic Information Systems (GIS). Lectures will include: what is GIS, GIS applications, fundamentals such as map projections, vector versus raster data models, creating and maintaining geographic databases, spatial analysis and modeling, cartography and map production. Lab sessions will include the hands on use of the ArcGIS software. Students will receive a 180-day version of the software with their textbook that they can use at home to complete assignments.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

moderate familiarity with the Windows operating system, preferably XP.

HLP 1081 - Wellness: Practice and Theory

A course designed to promote wellness through assessment, instruction and fitness programs which, if applied, will enable the individual to achieve and/or maintain a high quality of health and fitness throughout life. Based on assessment test results a physical examination by a physician may be recommended.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

PLA 1003 - Introduction to Paralegal Studies

This course is designed to give students a broad understanding of the nature of the paralegal profession and the elements contained within the profession, as well as its responsibility.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1005 - Legal Terminology

This course is designed to give an explanation of the common legal vocabulary involved in the broad, general principles of substantive and common law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1013 - Introduction to the Legal System

A practical introduction to the US legal system, types and sources of law, the courts, and related topics; a beginning course for students seeking careers in legal secretary technology or legal assisting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1114 - Legal Research and Writing

This course is designed to provide the student with necessary skills and knowledge required in legal research/case analysis and legal writing.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PLA 1003

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1203 - Civil Procedure

This course provides an insight into the system of dispute resolution for private parties and the government provided by the court systems of the various states and the federal government in a non-criminal setting.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1800 - Introduction to Family Law
An introduction to practices as they relate to family law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 2273 - Tort Law
This course is designed to provide the student with an introductory knowledge of tort law with objectives centered on personal injury torts.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PSY 2012 - Psychology
Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SLS 1101 - College Success
A course designed to focus on developing practical study skills to enhance academic success. Skills taught in this course are time management, concentration/memorization, listening, note taking, test taking, use of college resources, establishing goals, identifying learning styles, developing career choices and learning to cope with personal issues that face many college students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SYG 2010 - Social Problems
____ ____ Other Approved College Credits (DSC) _
Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total Technical Elective Credits Required: 31

Total Program Credits Required: 64

Customer Relationship Management (AS)

Admission Program Objective Code 2570 State CIP Code 1252020700
Students who successfully complete selected courses from this program of study may be eligible to receive the applied technology diploma in Customer Service Technology (ATD) (State CIP Code 0252020701).

General Education

Total General Education Credits Required: 18

Core Courses

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAR 2011 - Introduction to Marketing

An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds

of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

Total Core Credits Required: 27

Total Core Credits Required: 27

Total Core Credits Required: 27

Core Courses

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are

used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAR 2011 - Introduction to Marketing

An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

Total Core Credits Required: 27

Total Core Credits Required: 27

Total Core Credits Required: 27

Technical Elective Courses

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 1940 - Internship - Business

(can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2300 - Personnel Management

An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MKA 2041 - Retail Management

____ ____ Other Approved College Credits _

This course covers retail store management, location, buying merchandise, control policies, services, pricing, expenses, profits, training and supervision of retail sales forces, and administrative problems. Also includes a variety of current perspectives in retailing management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 15

General Education

Total General Education Credits Required: 18

Technical Elective Courses

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 1940 - Internship - Business

(can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2300 - Personnel Management

An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MKA 2041 - Retail Management

____ ____ Other Approved College Credits _

This course covers retail store management, location, buying merchandise, control policies, services, pricing, expenses, profits, training and supervision of retail sales forces, and administrative problems. Also includes a variety of current perspectives in retailing management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 15

Total Program Credits Required: 60

Technical Elective Courses

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 1940 - Internship - Business

(can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2300 - Personnel Management

An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MKA 2041 - Retail Management

____ ____ Other Approved College Credits _

This course covers retail store management, location, buying merchandise, control policies, services, pricing, expenses, profits, training and supervision of retail sales forces, and administrative problems. Also includes a variety of current perspectives in retailing management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 15

Total Program Credits Required: 60

Customer Service Technology (ATD)

Admission Program of Study Code B575 State CIP Code 0252020701

Students who successfully complete this diploma may be eligible to receive credits towards the Customer Relationship Management (AS) degree (State CIP Code 1252020700).

Core Courses

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

Total Core Credits Required: 12

Total Core Credits Required: 12

Total Core Credits Required: 12

Technical Elective Courses

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

GEB 1940 - Internship - Business (can be completed three times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAR 2011 - Introduction to Marketing

An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

SPC 1608 - Public Speaking

____ ____ Other Approved College Credits _

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Technical Elective Credits Required: 6

Total Technical Elective Credits Required: 6

Total Program Credits Required: 18

Core Courses

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

Total Core Credits Required: 12

Total Core Credits Required: 12

Total Core Credits Required: 12

Technical Elective Courses

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

GEB 1940 - Internship - Business (can be completed three times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAR 2011 - Introduction to Marketing

An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

SPC 1608 - Public Speaking

____ ____ Other Approved College Credits _

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Technical Elective Credits Required: 6

Total Technical Elective Credits Required: 6

Database Technology (AS)

Admission Program Objective Code 2155 State CIP Code 1511010306

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2440 - Introduction to Oracle

An introduction to Oracle and the design and creation of relational databases (using Oracle). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, Functions, Packages and Triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 27

Technical Elective Courses

CAP 2762 - Data Mining

This course offers exploration of data mining methodologies. Topics may include decision tables, decision trees, classification rules, association rules, clustering, statistical modeling, and linear models and will focus on data warehousing, data mining and data drilling.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 or any programming language.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2176 - Visual Basic ADO.Net

The aim of this course is to provide an advanced level of knowledge in database programming using Visual Basic's ADO.Net, using normalization, object and relational types, modeling, data validation, and structured query language (SQL) in creating database applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2541 , CGS 2544 , COP 1000 , COP 2010 , and COP 2011 .

Corequisite(s):

CGS 2544 , COP 2011 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 and COP 2840 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2438 - Advanced SQL Server Database

This course provides students with advanced topics required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This course is designed to prepare the student for certification, an elective requirement for the Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

CGS 2541 , CTS 2440 , CTS 2437 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ Other Approved College Credits _

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Total Program Credits Required: 63

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Technical Elective Courses

CAP 2762 - Data Mining

This course offers exploration of data mining methodologies. Topics may include decision tables, decision trees, classification rules, association rules, clustering, statistical modeling, and linear models and will focus on data warehousing, data mining and data drilling.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 or any programming language.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic’s internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2176 - Visual Basic ADO.Net

The aim of this course is to provide an advanced level of knowledge in database programming using Visual Basic’s ADO.Net, using

normalization, object and relational types, modeling, data validation, and structured query language (SQL) in creating database applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2541 , CGS 2544 , COP 1000 , COP 2010 , and COP 2011 .

Corequisite(s):

CGS 2544 , COP 2011 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 and COP 2840 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users

on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2438 - Advanced SQL Server Database

This course provides students with advanced topics required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This course is designed to prepare the student for certification, an elective requirement for the Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

CGS 2541 , CTS 2440 , CTS 2437 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ Other Approved College Credits _

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Total Program Credits Required: 63

Database and E-Commerce Security (CCC)

Admission Program Objective Code 6165 State CIP Code 0511100311
Students who successfully complete this certificate may be eligible to receive credits towards the IT Security (AS) degree (State CIP Code 1511100306).

Core Courses

CAP 2134C - Database Security

This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 and CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 15

Total Core Credits Required: 15

Total Core Credits Required: 15

Technical Elective Courses

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1854C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

recommended knowledge level of networking.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

COP 2XXX - Any 2000 level COP prefix course 3 Credit Hours

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 3

Core Courses

CAP 2134C - Database Security

This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 and CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 15

Total Core Credits Required: 15

Total Core Credits Required: 15

Total Program Credits Required: 18

Technical Elective Courses

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1854C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 , CGS 2541 .

Note:
▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
recommended knowledge level of networking.

Note:
▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

COP 2XXX - Any 2000 level COP prefix course 3 Credit Hours
General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 3

Technical Elective Courses

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1854C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

recommended knowledge level of networking.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

COP 2XXX - Any 2000 level COP prefix course 3 Credit Hours

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 3

Total Program Credits Required: 18

Total Program Credits Required: 18

Dental Assisting (PSAV)

Admission Program of Study Code 5000 State CIP Code 0351060107
This program is a Limited Admission program subject to additional program policies and requirements stipulated in the “Dental Assisting Student Handbook.” The admission criteria and process, as well as some course numbers and credits are subject to change; students should contact the Dental Assisting program office for the most current information.
The program in dental assisting is accredited by the Commission on Dental Accreditation and has been granted accreditation status of approval without reporting requirements. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611-2678. The Commission’s web address is: http://www.ada.org/100.aspx.
Students who successfully complete this program and pass the Dental Assisting National Board (DANB) Certificate (CDA) may apply 21 credits towards the Technical Elective requirements for the Health Services Management (AS) degree (State CIP Code 135070100).

Core Courses

DEA 0020 - Pre-Clinical Procedures Theory

This course is designed to provide an introduction to the dental assisting profession to include orientation to four handed dentistry and general dental office procedures including, but not limited to basic principles of disease prevention, patient data collection and assessment, and instrumentation. Emphasis is on adhering to safety guidelines as specified by OSHA.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0020L - Pre-Clinical Practice Lab

This is a comprehensive chair side competency based course. The course provides the skills practice necessary for dental assisting students entering four handed dentistry practice including but not limited to infection control, taking and recording vital signs, assisting with operative procedures, principles of preventive dentistry, instrument identification, and use and maintenance of equipment. Emphasis is on aseptic technique and clinical competency with procedures performed in a contemporary dental practice.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DES 0103L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college

credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0130 - Allied Dental Theory

This course is a general study of the scientific and clinical concepts that include additional knowledge base necessary to the practice of dental assisting. Students will study the normal and abnormal conditions of the oral cavity such as dental caries prevention, the dental caries process and recognition of various common pathological conditions. Oral pathology, histology and embryology are included. Emphasis is on the interrelationship of the information presented with the clinical practice of dental assisting.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0803L - Clinical Practice I

This competency based clinical course provides a real world setting in which to integrate the laboratory and clinical skills learned in the classroom. The student receives closely supervised hands on training in chair side dental assisting through rotations at community dental offices. Progress is evaluated using predetermined competency guidelines. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 90 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DEA 0020L .

Note:

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DEA 0851L - Clinical Practice III

This course is a continuation of Clinical Practice II, providing a real world setting for students to practice the training and clinical skills learned in class including x-ray film placement and cone positioning. The student is assigned to various offices in the community including specialty offices and general dentistry offices. Students assist the dentist and staff with various function of a Dental Assistant at a more advanced level of proficiency. Students must provide their own transportation and must have current CPR training along with up-to-date immunizations. Specific procedure requirements and 180 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 180 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DEA 0852L , DES 0205 , DES 0205L .

Note:

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DEA 0852L - Clinical Practice II

This course is a continuation of Clinical Practice I. It provides a real world setting for students to receive additional training in the clinical skills learned in class. Students are assigned to various offices in the community including but not limited to general dentists, oral surgeons, orthodontists, periodontists, and endodontists. Performance evaluations are utilized to measure competency and provide feedback from the local dental offices to the instructor regarding the students' competency level. Skills are strengthened in Seminar Lab. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 150 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 150 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DES 0400B

Corequisite(s):

DES 0830 , DES 0830L .

Note:

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DEA 0936 - Dental Assisting Seminar

This course is designed to provide a review of materials commonly covered on the Dental Assisting National Board (DANB) Exam. Topics include but are not limited to infection control, general chair side procedures, and radiographic technique. The seminar will provide a mock board examination, and opportunities for review, problem solving, and strengthening skills. The course also serves as an opportunity for feedback from students' Clinical Practice.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0852L , DEA 0803L , DES 0205 , DES 0205L

Corequisite(s):

DEA 0803L , DES 0206L .

Note:

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DES 0103 - Dental Materials Theory

This course is a comprehensive study of the theory of manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. The competency based lab that accompanies this course includes exercises to illustrate application and use of selected materials. Students will study various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, as well as acrylic plastics. Students will become familiar with various pieces of dental laboratory equipment and their uses.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103L , DEA 0020L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0103L - Dental Materials Lab

This course is a comprehensive study of the manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. Emphasis is on practical application as it relates to the role of the dental assistant in the contemporary dental practice. It is a competency based lab that accompanies the theory course and includes exercises to illustrate application and uses of selected materials. Students practice the use of various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, and acrylic plastics.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103 , DEA 0020L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take

advantage of this opportunity.

DES 0205 - Dental Radiology Lecture

This course is designed to introduce the theory, application and principles of radiographic exposure and processing techniques used in dentistry. Students will receive instruction including but not limited to historical data, radiation safety, exposure, processing, mounting and error prevention. Image interpretation of radiographic anatomical structures will be included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205L .

Note:

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DES 0205L - Dental Radiology Lab

This laboratory course assists students in radiographic performance techniques using DXTR manikins to achieve competency prior to exposure of various patients with varied dentitions. Students practice exposing, mounting, radiographic interpretation, safe darkroom procedures, identification of landmarks and distinguishing radiographic pathology from normal landmarks. Clinical radiographic skills necessary to produce diagnostic quality radiographs including bitewings, periapical radiographs, and panoramic x-rays will be covered. Emphasis is on patient and operator safety guidelines and producing diagnostic quality radiographs.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205 .

Note:

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DES 0206L - Dental Radiology Lab II

This laboratory course assists students in additional radiographic performance techniques to include surveys on patients with varied dentitions. Students practice more advanced radiographic exposure techniques, interpretation, additional darkroom procedures, identification of landmarks and distinguishing various radiographic pathology. Clinical radiographic skills necessary to produce diagnostic quality x-rays including but not limited to bitewings, periapical radiographs, and panoramic surveys on actual patients will be covered. Emphasis is placed on patient and operator safety guidelines and producing diagnostic quality radiographs during this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L , DES 0205L

Corequisite(s):

DEA 0851L .

Note:

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DES 0324 - Interpersonal Communications Skills

This course is designed to implement interpersonal and effective communication skills in the practice of dentistry. It includes team building strategies, oral and written communications skills with the correct use of terminology commonly used in dentistry.

Professionalism in verbal and nonverbal communications is emphasized. Students will be introduced to the legal and ethical scope of responsibilities for dental assistants and interpersonal relations in the dental office. Providing oral health instructions and post operative instructions for patients will be introduced. Scenario-based role playing is used to augment student learning of course content.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DES 0400B - Dental Anatomy

This course provides a detailed study of the orofacial and related structures of the head and neck including, but not limited to the eruption, identification and function of the human dentition, study of bony, circulatory, muscular and nervous systems of the head, neck and surrounding structures associated with the oral cavity. A brief introduction to oral histology and embryology will be included.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Note:

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DES 0501 - Dental Practice Management

This course includes theory and content relating to practical administrative duties performed in the dental office. Lectures and role playing activities are related to the responsibilities of the dental assistant. Topics include but are not limited to appointment scheduling, billing, collections, record keeping, clerical and dental supply inventory. Students are introduced to the use of dental practice software with hands on computer experience. Legal responsibilities, interpersonal relations, and interview skills are included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0205 , DES 0205L

Corequisite(s):

DEA 0936 .

Note:

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DES 0602 - Pharmacology and Dental Office Emergencies

This course is designed to familiarize the dental assisting student with the basic concepts and considerations regarding pharmacology and pharmaceutics used in dentistry. Topics presented include nitrous oxide monitoring, emergency procedures and protocol. Lectures will include recognition of emergency conditions in the dental office, not limited to syncope, anaphylaxis, and cardiovascular incidents. Emphasis is placed on the role of the dental assistant in the prevention and management of dental office emergencies.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DES 0830 - Expanded Function Theory

This course introduces the dental assisting student to the dental specialty practices and more advanced clinical skills. It also provides the theory of dental specialty practice administration as it relates to the role of the dental assistant including ethical and

legal ramifications. Lectures relate topics including but not limited to dental specialty procedures, instruments used in the specialty practices and duties delegated to dental assistants according to the rules and regulations of the Florida Dental Practice Act. Role playing and problem solving activities using case studies relate to duties delegated to dental assistants.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):
DES 0830L .

Note:
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DES 0830L - Skills Seminar
This laboratory course accompanies the clinical practice lecture course DES 0830 and provides opportunity for students to practice application of the duties delegated to dental assistants according to the Florida Dental Practice Act. Students become more proficient in more advanced skills. Competencies containing information and behavioral objectives allow students to master each skill before advancing to the next.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):
DES 0830 .

Note:
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DES 0844 - Dental Science
This course is a general study in biomedical sciences of preventive dentistry to familiarize the dental assisting student with basic principles of microbiology, basic body structures, and their functions and effects as manifested in the oral cavity. The course also covers the effects of nutrition and the role of microorganisms in dental health and blood borne pathogens.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:
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Total Program Hours Required: 1230

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Total Program Hours Required: 1230

Core Courses

DEA 0020 - Pre-Clinical Procedures Theory

This course is designed to provide an introduction to the dental assisting profession to include orientation to four handed dentistry and general dental office procedures including, but not limited to basic principles of disease prevention, patient data collection and assessment, and instrumentation. Emphasis is on adhering to safety guidelines as specified by OSHA.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020L .

Note:

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DEA 0020L - Pre-Clinical Practice Lab

This is a comprehensive chair side competency based course. The course provides the skills practice necessary for dental assisting students entering four handed dentistry practice including but not limited to infection control, taking and recording vital signs, assisting with operative procedures, principles of preventive dentistry, instrument identification, and use and maintenance of equipment. Emphasis is on aseptic technique and clinical competency with procedures performed in a contemporary dental practice.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DES 0103L .

Note:

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DEA 0130 - Allied Dental Theory

This course is a general study of the scientific and clinical concepts that include additional knowledge base necessary to the practice of dental assisting. Students will study the normal and abnormal conditions of the oral cavity such as dental caries prevention, the dental caries process and recognition of various common pathological conditions. Oral pathology, histology and embryology are included. Emphasis is on the interrelationship of the information presented with the clinical practice of dental assisting.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DEA 0803L - Clinical Practice I

This competency based clinical course provides a real world setting in which to integrate the laboratory and clinical skills learned in the classroom. The student receives closely supervised hands on training in chair side dental assisting through rotations at community dental offices. Progress is evaluated using predetermined competency guidelines. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 90 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DEA 0020L .

Note:

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DEA 0851L - Clinical Practice III

This course is a continuation of Clinical Practice II, providing a real world setting for students to practice the training and clinical skills learned in class including x-ray film placement and cone positioning. The student is assigned to various offices in the community including specialty offices and general dentistry offices. Students assist the dentist and staff with various function of a Dental Assistant at a more advanced level of proficiency. Students must provide their own transportation and must have current CPR training along with up-to-date immunizations. Specific procedure requirements and 180 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 180 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DEA 0852L , DES 0205 , DES 0205L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0852L - Clinical Practice II

This course is a continuation of Clinical Practice I. It provides a real world setting for students to receive additional training in the clinical skills learned in class. Students are assigned to various offices in the community including but not limited to general dentists, oral surgeons, orthodontists, periodontists, and endodontists. Performance evaluations are utilized to measure competency and provide feedback from the local dental offices to the instructor regarding the students' competency level. Skills are strengthened in Seminar Lab. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 150 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 150 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DES 0400B

Corequisite(s):

DES 0830 , DES 0830L .

Note:

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DEA 0936 - Dental Assisting Seminar

This course is designed to provide a review of materials commonly covered on the Dental Assisting National Board (DANB) Exam. Topics include but are not limited to infection control, general chair side procedures, and radiographic technique. The seminar will provide a mock board examination, and opportunities for review, problem solving, and strengthening skills. The course also serves as an opportunity for feedback from students' Clinical Practice.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0852L , DEA 0803L , DES 0205 , DES 0205L

Corequisite(s):

DEA 0803L , DES 0206L .

Note:

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DES 0103 - Dental Materials Theory

This course is a comprehensive study of the theory of manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. The competency based lab that accompanies this course includes exercises to illustrate application and use of selected materials. Students will study various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, as well as acrylic plastics. Students will become familiar with various pieces of dental laboratory equipment and their uses.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103L , DEA 0020L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0103L - Dental Materials Lab

This course is a comprehensive study of the manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. Emphasis is on practical application as it relates to the role of the dental assistant in the contemporary dental practice. It is a competency based lab that accompanies the theory course and includes exercises to illustrate application and uses of selected materials. Students practice the use of various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, and acrylic plastics.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103 , DEA 0020L .

Note:

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DES 0205 - Dental Radiology Lecture

This course is designed to introduce the theory, application and principles of radiographic exposure and processing techniques used in dentistry. Students will receive instruction including but not limited to historical data, radiation safety, exposure, processing, mounting and error prevention. Image interpretation of radiographic anatomical structures will be included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take

advantage of this opportunity.

DES 0205L - Dental Radiology Lab

This laboratory course assists students in radiographic performance techniques using DXTR manikins to achieve competency prior to exposure of various patients with varied dentitions. Students practice exposing, mounting, radiographic interpretation, safe darkroom procedures, identification of landmarks and distinguishing radiographic pathology from normal landmarks. Clinical radiographic skills necessary to produce diagnostic quality radiographs including bitewings, periapical radiographs, and panoramic x-rays will be covered. Emphasis is on patient and operator safety guidelines and producing diagnostic quality radiographs.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0206L - Dental Radiology Lab II

This laboratory course assists students in additional radiographic performance techniques to include surveys on patients with varied dentitions. Students practice more advanced radiographic exposure techniques, interpretation, additional darkroom procedures, identification of landmarks and distinguishing various radiographic pathology. Clinical radiographic skills necessary to produce diagnostic quality x-rays including but not limited to bitewings, periapical radiographs, and panoramic surveys on actual patients will be covered. Emphasis is placed on patient and operator safety guidelines and producing diagnostic quality radiographs during this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L , DES 0205L

Corequisite(s):

DEA 0851L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0324 - Interpersonal Communications Skills

This course is designed to implement interpersonal and effective communication skills in the practice of dentistry. It includes team building strategies, oral and written communications skills with the correct use of terminology commonly used in dentistry. Professionalism in verbal and nonverbal communications is emphasized. Students will be introduced to the legal and ethical scope of responsibilities for dental assistants and interpersonal relations in the dental office. Providing oral health instructions and post operative instructions for patients will be introduced. Scenario-based role playing is used to augment student learning of course content.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0400B - Dental Anatomy

This course provides a detailed study of the orofacial and related structures of the head and neck including, but not limited to the eruption, identification and function of the human dentition, study of bony, circulatory, muscular and nervous systems of the head, neck and surrounding structures associated with the oral cavity. A brief introduction to oral histology and embryology will be included.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0501 - Dental Practice Management

This course includes theory and content relating to practical administrative duties performed in the dental office. Lectures and role playing activities are related to the responsibilities of the dental assistant. Topics include but are not limited to appointment scheduling, billing, collections, record keeping, clerical and dental supply inventory. Students are introduced to the use of dental practice software with hands on computer experience. Legal responsibilities, interpersonal relations, and interview skills are included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0205 , DES 0205L

Corequisite(s):

DEA 0936 .

Note:

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DES 0602 - Pharmacology and Dental Office Emergencies

This course is designed to familiarize the dental assisting student with the basic concepts and considerations regarding pharmacology and pharmaceutics used in dentistry. Topics presented include nitrous oxide monitoring, emergency procedures and protocol. Lectures will include recognition of emergency conditions in the dental office, not limited to syncope, anaphylaxis, and cardiovascular incidents. Emphasis is placed on the role of the dental assistant in the prevention and management of dental office emergencies.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0830 - Expanded Function Theory

This course introduces the dental assisting student to the dental specialty practices and more advanced clinical skills. It also provides the theory of dental specialty practice administration as it relates to the role of the dental assistant including ethical and legal ramifications. Lectures relate topics including but not limited to dental specialty procedures, instruments used in the specialty practices and duties delegated to dental assistants according to the rules and regulations of the Florida Dental Practice Act. Role playing and problem solving activities using case studies relate to duties delegated to dental assistants.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0830L - Skills Seminar

This laboratory course accompanies the clinical practice lecture course DES 0830 and provides opportunity for students to practice application of the duties delegated to dental assistants according to the Florida Dental Practice Act. Students become more proficient in more advanced skills. Competencies containing information and behavioral objectives allow students to master each skill before advancing to the next.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0844 - Dental Science

This course is a general study in biomedical sciences of preventive dentistry to familiarize the dental assisting student with basic principles of microbiology, basic body structures, and their functions and effects as manifested in the oral cavity. The course also covers the effects of nutrition and the role of microorganisms in dental health and blood borne pathogens.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Core Courses

DEA 0020 - Pre-Clinical Procedures Theory

This course is designed to provide an introduction to the dental assisting profession to include orientation to four handed dentistry

and general dental office procedures including, but not limited to basic principles of disease prevention, patient data collection and assessment, and instrumentation. Emphasis is on adhering to safety guidelines as specified by OSHA.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0020L - Pre-Clinical Practice Lab

This is a comprehensive chair side competency based course. The course provides the skills practice necessary for dental assisting students entering four handed dentistry practice including but not limited to infection control, taking and recording vital signs, assisting with operative procedures, principles of preventive dentistry, instrument identification, and use and maintenance of equipment. Emphasis is on aseptic technique and clinical competency with procedures performed in a contemporary dental practice.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DES 0103L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0130 - Allied Dental Theory

This course is a general study of the scientific and clinical concepts that include additional knowledge base necessary to the practice of dental assisting. Students will study the normal and abnormal conditions of the oral cavity such as dental caries prevention, the dental caries process and recognition of various common pathological conditions. Oral pathology, histology and embryology are included. Emphasis is on the interrelationship of the information presented with the clinical practice of dental assisting.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0803L - Clinical Practice I

This competency based clinical course provides a real world setting in which to integrate the laboratory and clinical skills learned in the classroom. The student receives closely supervised hands on training in chair side dental assisting through rotations at community dental offices. Progress is evaluated using predetermined competency guidelines. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 90 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DEA 0020L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0851L - Clinical Practice III

This course is a continuation of Clinical Practice II, providing a real world setting for students to practice the training and clinical

skills learned in class including x-ray film placement and cone positioning. The student is assigned to various offices in the community including specialty offices and general dentistry offices. Students assist the dentist and staff with various function of a Dental Assistant at a more advanced level of proficiency. Students must provide their own transportation and must have current CPR training along with up-to-date immunizations. Specific procedure requirements and 180 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 180 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DEA 0852L , DES 0205 , DES 0205L .

Note:

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DEA 0852L - Clinical Practice II

This course is a continuation of Clinical Practice I. It provides a real world setting for students to receive additional training in the clinical skills learned in class. Students are assigned to various offices in the community including but not limited to general dentists, oral surgeons, orthodontists, periodontists, and endodontists. Performance evaluations are utilized to measure competency and provide feedback from the local dental offices to the instructor regarding the students' competency level. Skills are strengthened in Seminar Lab. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 150 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 150 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DES 0400B

Corequisite(s):

DES 0830 , DES 0830L .

Note:

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DEA 0936 - Dental Assisting Seminar

This course is designed to provide a review of materials commonly covered on the Dental Assisting National Board (DANB) Exam. Topics include but are not limited to infection control, general chair side procedures, and radiographic technique. The seminar will provide a mock board examination, and opportunities for review, problem solving, and strengthening skills. The course also serves as an opportunity for feedback from students' Clinical Practice.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0852L , DEA 0803L , DES 0205 , DES 0205L

Corequisite(s):

DEA 0803L , DES 0206L .

Note:

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DES 0103 - Dental Materials Theory

This course is a comprehensive study of the theory of manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. The competency based lab that accompanies this course includes exercises to illustrate application and use of selected materials. Students will study various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, as well as acrylic plastics. Students will become familiar with various pieces of dental laboratory equipment and their uses.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103L , DEA 0020L .

Note:

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DES 0103L - Dental Materials Lab

This course is a comprehensive study of the manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. Emphasis is on practical application as it relates to the role of the dental assistant in the contemporary dental practice. It is a competency based lab that accompanies the theory course and includes exercises to illustrate application and uses of selected materials. Students practice the use of various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, and acrylic plastics.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103 , DEA 0020L .

Note:

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DES 0205 - Dental Radiology Lecture

This course is designed to introduce the theory, application and principles of radiographic exposure and processing techniques used in dentistry. Students will receive instruction including but not limited to historical data, radiation safety, exposure, processing, mounting and error prevention. Image interpretation of radiographic anatomical structures will be included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205L .

Note:

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DES 0205L - Dental Radiology Lab

This laboratory course assists students in radiographic performance techniques using DXTR manikins to achieve competency prior to exposure of various patients with varied dentitions. Students practice exposing, mounting, radiographic interpretation, safe darkroom procedures, identification of landmarks and distinguishing radiographic pathology from normal landmarks. Clinical radiographic skills necessary to produce diagnostic quality radiographs including bitewings, periapical radiographs, and panoramic x-rays will be covered. Emphasis is on patient and operator safety guidelines and producing diagnostic quality radiographs.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205 .

Note:

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advantage of this opportunity.

DES 0206L - Dental Radiology Lab II

This laboratory course assists students in additional radiographic performance techniques to include surveys on patients with varied dentitions. Students practice more advanced radiographic exposure techniques, interpretation, additional darkroom procedures, identification of landmarks and distinguishing various radiographic pathology. Clinical radiographic skills necessary to produce diagnostic quality x-rays including but not limited to bitewings, periapical radiographs, and panoramic surveys on actual patients will be covered. Emphasis is placed on patient and operator safety guidelines and producing diagnostic quality radiographs during this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L , DES 0205L

Corequisite(s):

DEA 0851L .

Note:

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DES 0324 - Interpersonal Communications Skills

This course is designed to implement interpersonal and effective communication skills in the practice of dentistry. It includes team building strategies, oral and written communications skills with the correct use of terminology commonly used in dentistry. Professionalism in verbal and nonverbal communications is emphasized. Students will be introduced to the legal and ethical scope of responsibilities for dental assistants and interpersonal relations in the dental office. Providing oral health instructions and post operative instructions for patients will be introduced. Scenario-based role playing is used to augment student learning of course content.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DES 0400B - Dental Anatomy

This course provides a detailed study of the orofacial and related structures of the head and neck including, but not limited to the eruption, identification and function of the human dentition, study of bony, circulatory, muscular and nervous systems of the head, neck and surrounding structures associated with the oral cavity. A brief introduction to oral histology and embryology will be included.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Note:

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DES 0501 - Dental Practice Management

This course includes theory and content relating to practical administrative duties performed in the dental office. Lectures and role playing activities are related to the responsibilities of the dental assistant. Topics include but are not limited to appointment scheduling, billing, collections, record keeping, clerical and dental supply inventory. Students are introduced to the use of dental practice software with hands on computer experience. Legal responsibilities, interpersonal relations, and interview skills are included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0205 , DES 0205L

Corequisite(s):

DEA 0936 .

Note:

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DES 0602 - Pharmacology and Dental Office Emergencies

This course is designed to familiarize the dental assisting student with the basic concepts and considerations regarding pharmacology and pharmaceutics used in dentistry. Topics presented include nitrous oxide monitoring, emergency procedures and protocol. Lectures will include recognition of emergency conditions in the dental office, not limited to syncope, anaphylaxis, and cardiovascular incidents. Emphasis is placed on the role of the dental assistant in the prevention and management of dental office emergencies.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0830 - Expanded Function Theory

This course introduces the dental assisting student to the dental specialty practices and more advanced clinical skills. It also provides the theory of dental specialty practice administration as it relates to the role of the dental assistant including ethical and legal ramifications. Lectures relate topics including but not limited to dental specialty procedures, instruments used in the specialty practices and duties delegated to dental assistants according to the rules and regulations of the Florida Dental Practice Act. Role playing and problem solving activities using case studies relate to duties delegated to dental assistants.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830L .

Note:

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DES 0830L - Skills Seminar

This laboratory course accompanies the clinical practice lecture course DES 0830 and provides opportunity for students to practice application of the duties delegated to dental assistants according to the Florida Dental Practice Act. Students become more proficient in more advanced skills. Competencies containing information and behavioral objectives allow students to master each skill before advancing to the next.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0844 - Dental Science

This course is a general study in biomedical sciences of preventive dentistry to familiarize the dental assisting student with basic

principles of microbiology, basic body structures, and their functions and effects as manifested in the oral cavity. The course also covers the effects of nutrition and the role of microorganisms in dental health and blood borne pathogens.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Total Program Hours Required: 1230

Core Courses

DEA 0020 - Pre-Clinical Procedures Theory

This course is designed to provide an introduction to the dental assisting profession to include orientation to four handed dentistry and general dental office procedures including, but not limited to basic principles of disease prevention, patient data collection and assessment, and instrumentation. Emphasis is on adhering to safety guidelines as specified by OSHA.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0020L - Pre-Clinical Practice Lab

This is a comprehensive chair side competency based course. The course provides the skills practice necessary for dental assisting students entering four handed dentistry practice including but not limited to infection control, taking and recording vital signs, assisting with operative procedures, principles of preventive dentistry, instrument identification, and use and maintenance of equipment. Emphasis is on aseptic technique and clinical competency with procedures performed in a contemporary dental practice.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DES 0103L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0130 - Allied Dental Theory

This course is a general study of the scientific and clinical concepts that include additional knowledge base necessary to the practice of dental assisting. Students will study the normal and abnormal conditions of the oral cavity such as dental caries prevention, the dental caries process and recognition of various common pathological conditions. Oral pathology, histology and embryology are included. Emphasis is on the interrelationship of the information presented with the clinical practice of dental assisting.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0803L - Clinical Practice I

This competency based clinical course provides a real world setting in which to integrate the laboratory and clinical skills learned in the classroom. The student receives closely supervised hands on training in chair side dental assisting through rotations at community dental offices. Progress is evaluated using predetermined competency guidelines. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 90 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DEA 0020L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0851L - Clinical Practice III

This course is a continuation of Clinical Practice II, providing a real world setting for students to practice the training and clinical skills learned in class including x-ray film placement and cone positioning. The student is assigned to various offices in the community including specialty offices and general dentistry offices. Students assist the dentist and staff with various function of a Dental Assistant at a more advanced level of proficiency. Students must provide their own transportation and must have current CPR training along with up-to-date immunizations. Specific procedure requirements and 180 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 180 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DEA 0852L , DES 0205 , DES 0205L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0852L - Clinical Practice II

This course is a continuation of Clinical Practice I. It provides a real world setting for students to receive additional training in the clinical skills learned in class. Students are assigned to various offices in the community including but not limited to general

dentists, oral surgeons, orthodontists, periodontists, and endodontists. Performance evaluations are utilized to measure competency and provide feedback from the local dental offices to the instructor regarding the students' competency level. Skills are strengthened in Seminar Lab. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 150 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 150 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DES 0400B

Corequisite(s):

DES 0830 , DES 0830L .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0936 - Dental Assisting Seminar

This course is designed to provide a review of materials commonly covered on the Dental Assisting National Board (DANB) Exam. Topics include but are not limited to infection control, general chair side procedures, and radiographic technique. The seminar will provide a mock board examination, and opportunities for review, problem solving, and strengthening skills. The course also serves as an opportunity for feedback from students' Clinical Practice.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0852L , DEA 0803L , DES 0205 , DES 0205L

Corequisite(s):

DEA 0803L , DES 0206L .

Note:

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DES 0103 - Dental Materials Theory

This course is a comprehensive study of the theory of manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. The competency based lab that accompanies this course includes exercises to illustrate application and use of selected materials. Students will study various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, as well as acrylic plastics. Students will become familiar with various pieces of dental laboratory equipment and their uses.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103L , DEA 0020L .

Note:

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DES 0103L - Dental Materials Lab

This course is a comprehensive study of the manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. Emphasis is on practical application as it relates to the role of the dental assistant in the contemporary dental practice. It is a competency based lab that accompanies the theory course and includes exercises to illustrate application and uses of selected materials. Students practice the use of various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, and acrylic plastics.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103 , DEA 0020L .

Note:

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DES 0205 - Dental Radiology Lecture

This course is designed to introduce the theory, application and principles of radiographic exposure and processing techniques used in dentistry. Students will receive instruction including but not limited to historical data, radiation safety, exposure, processing, mounting and error prevention. Image interpretation of radiographic anatomical structures will be included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205L .

Note:

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DES 0205L - Dental Radiology Lab

This laboratory course assists students in radiographic performance techniques using DXTR manikins to achieve competency prior to exposure of various patients with varied dentitions. Students practice exposing, mounting, radiographic interpretation, safe darkroom procedures, identification of landmarks and distinguishing radiographic pathology from normal landmarks. Clinical radiographic skills necessary to produce diagnostic quality radiographs including bitewings, periapical radiographs, and panoramic x-rays will be covered. Emphasis is on patient and operator safety guidelines and producing diagnostic quality radiographs.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205 .

Note:

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DES 0206L - Dental Radiology Lab II

This laboratory course assists students in additional radiographic performance techniques to include surveys on patients with varied dentitions. Students practice more advanced radiographic exposure techniques, interpretation, additional darkroom procedures, identification of landmarks and distinguishing various radiographic pathology. Clinical radiographic skills necessary to produce diagnostic quality x-rays including but not limited to bitewings, periapical radiographs, and panoramic surveys on actual patients will be covered. Emphasis is placed on patient and operator safety guidelines and producing diagnostic quality radiographs during this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L , DES 0205L

Corequisite(s):

DEA 0851L .

Note:

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Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0324 - Interpersonal Communications Skills

This course is designed to implement interpersonal and effective communication skills in the practice of dentistry. It includes team building strategies, oral and written communications skills with the correct use of terminology commonly used in dentistry. Professionalism in verbal and nonverbal communications is emphasized. Students will be introduced to the legal and ethical scope of responsibilities for dental assistants and interpersonal relations in the dental office. Providing oral health instructions and post operative instructions for patients will be introduced. Scenario-based role playing is used to augment student learning of course content.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DES 0400B - Dental Anatomy

This course provides a detailed study of the orofacial and related structures of the head and neck including, but not limited to the eruption, identification and function of the human dentition, study of bony, circulatory, muscular and nervous systems of the head, neck and surrounding structures associated with the oral cavity. A brief introduction to oral histology and embryology will be included.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Note:

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DES 0501 - Dental Practice Management

This course includes theory and content relating to practical administrative duties performed in the dental office. Lectures and role playing activities are related to the responsibilities of the dental assistant. Topics include but are not limited to appointment scheduling, billing, collections, record keeping, clerical and dental supply inventory. Students are introduced to the use of dental practice software with hands on computer experience. Legal responsibilities, interpersonal relations, and interview skills are included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0205 , DES 0205L

Corequisite(s):

DEA 0936 .

Note:

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DES 0602 - Pharmacology and Dental Office Emergencies

This course is designed to familiarize the dental assisting student with the basic concepts and considerations regarding pharmacology and pharmaceutics used in dentistry. Topics presented include nitrous oxide monitoring, emergency procedures and protocol. Lectures will include recognition of emergency conditions in the dental office, not limited to syncope, anaphylaxis, and cardiovascular incidents. Emphasis is placed on the role of the dental assistant in the prevention and management of dental office emergencies.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and

Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DES 0830 - Expanded Function Theory

This course introduces the dental assisting student to the dental specialty practices and more advanced clinical skills. It also provides the theory of dental specialty practice administration as it relates to the role of the dental assistant including ethical and legal ramifications. Lectures relate topics including but not limited to dental specialty procedures, instruments used in the specialty practices and duties delegated to dental assistants according to the rules and regulations of the Florida Dental Practice Act. Role playing and problem solving activities using case studies relate to duties delegated to dental assistants.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830L .

Note:

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DES 0830L - Skills Seminar

This laboratory course accompanies the clinical practice lecture course DES 0830 and provides opportunity for students to practice application of the duties delegated to dental assistants according to the Florida Dental Practice Act. Students become more proficient in more advanced skills. Competencies containing information and behavioral objectives allow students to master each skill before advancing to the next.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830 .

Note:

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DES 0844 - Dental Science

This course is a general study in biomedical sciences of preventive dentistry to familiarize the dental assisting student with basic principles of microbiology, basic body structures, and their functions and effects as manifested in the oral cavity. The course also covers the effects of nutrition and the role of microorganisms in dental health and blood borne pathogens.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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Total Program Hours Required: 1230

Total Program Hours Required: 1230

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Total Program Hours Required: 1230

Total Program Hours Required: 1230

Digital Forensics (CCC)

Admission Program of Study Code 6147 State CIP Code 0511100119
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2880C - Digital Forensics Fundamentals

This course offers a solid foundation to computer forensics investigations: preparing students to acquire and analyze digital evidence. the course covers tools and techniques and explains topics such as file structure, data recovery, e-mail and network

investigations, and expert witness testimony. In addition, the student will gain practical knowledge in conducting digital investigations and preserving digital evidence that maybe used in court or corporate inquiries.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2881C - Digital Forensics II

Digital Forensics II builds upon the foundational knowledge learned in digital forensics fundamentals. Students will utilize industry standard tools to conduct examinations of various digital media and document their findings. Devices to be studied include computers (server, desktop, laptop), mobile devices (tablets, cell phones, smart phones, mp3 players, gps), and devices such as dvr's and routers. Emphasis will be placed upon real-world digital forensics scenarios and the investigative thought process. At the conclusion of the class, students will be prepared to take the accessdata certified examiner (ace) examination.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 2880C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2314C - Network Defense and Countermeasures

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure and implement secure networks. Security topics covered in this course include firewalls, Intrusion Detection Systems (IDS), Virtual Private Networks (VPN) and policy creation using the Windows Operating System (OS), Transmission Control Protocol/Internet Protocol (TCP/IP) packet and signature analysis. The student will get hands-on instruction installing the network defense mechanisms and countermeasure applications. Software will be used for collecting, monitoring and auditing various activities; students will analyze threats and intrusions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1610C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 24

Technical Elective Courses

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to

prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2854C - Fundamentals of Wireless LANs

Develop, implement and troubleshoot wireless networks. This hands-on, skill-based course focuses on the design, planning and operation of wireless networks, with an overview of technologies, security, and design best practices. This course helps prepare the student for the CISCO Wireless Certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-

Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

recommended knowledge level of networking.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

COP 2XXX Any 2000 level COP prefix course 3 Credit Hours

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 8

Total Program Credits Required: 32

Digital Manufacturing Specialist (CCC)

Admission Program of Study Code 6013 State CIP Code 0615000009

Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Digital Manufacturing Specialization (DM) Option (AS) degree (State CIP Code 1615000001).

Core Courses

With the approval of an advisor, select 24 credits from the following:

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

for Drafting and Design student course should be taken with ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing,

profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):
ETD 1217 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
ETD 1102 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
ETD 2357C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
ETD 1355C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
ETD 1320C or higher or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
ETD 2364C or higher or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Credits Required: 24

Total Credits Required: 24

Core Courses

With the approval of an advisor, select 24 credits from the following:

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

for Drafting and Design student course should be taken with ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

ETD 2357C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Credits Required: 24

Total Credits Required: 24

Digital Media/Multimedia Authoring (CCC)

Admission Program of Study Code 6580 State CIP Code 0609070209
Students who successfully complete this diploma may be eligible to receive credits towards the Digital Media/Multimedia Technology (AS) degree (State CIP Code 1611080102).

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

____ ____ Other Approved College Credits (GRA, COP 2840) 1 Credit Hour

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 12

Digital Media/Multimedia Presentation (CCC)

Admission Program of Study Code 6581 State CIP Code 0609070219

Students who successfully complete this diploma may be eligible to receive credits towards the Digital Media/Multimedia Technology (AS) degree (State CIP Code 1611080102).

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2140C - Multimedia I

An advanced course covering the development of multimedia projects incorporating a variety of digital media elements. Students will learn an industry standard digital video editing application and the aesthetic and technical considerations involved in content acquisition. Access to a miniDV camcorder suggested.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ART 2602C , GRA 1151C and PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

____ ____ Other Approved College Credits (GRA, COP 2840) 2 Credit Hours

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 17

Total Program Credits Required: 17

Digital Media/Multimedia Technology (AS)

Admission Program Objective Code 2580 State CIP Code 1611080102

The Digital Media/Multimedia programs are intended for students interested in working in commercial art fields that include electronic publishing, digital video production, and website development.

Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificates in Digital Media/Multimedia Authoring (CCC) (State CIP Code 0609070209) and/or Digital Media/Multimedia Presentation (CCC) (State CIP Code 0609070209).

Students are encouraged, but not required, to contact Digital Media faculty at 729-6019 for detailed advising to plan a program of study before enrolling in courses.

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will

create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2140C - Multimedia I

An advanced course covering the development of multimedia projects incorporating a variety of digital media elements. Students will learn an industry standard digital video editing application and the aesthetic and technical considerations involved in content acquisition. Access to a miniDV camcorder suggested.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ART 2602C , GRA 1151C and PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 21

Total Core Credits Required: 21

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will

create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2140C - Multimedia I

An advanced course covering the development of multimedia projects incorporating a variety of digital media elements. Students will learn an industry standard digital video editing application and the aesthetic and technical considerations involved in content acquisition. Access to a miniDV camcorder suggested.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ART 2602C , GRA 1151C and PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 21

Total Core Credits Required: 21

Total Program Credits Required: 64

Technical Elective Courses

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2141C - Multimedia II

An advanced course covering principles of design and information architecture surrounding interactive multimedia presentations. Students will learn an industry standard interactive DVD media authoring software application. Students will produce a finished interactive DVD.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 2140C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2142C - Web Design I

An introductory course covering the development of websites using an industry standard web development software application. Students will study the aesthetics and technical considerations involved with information architecture and basic interface design. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2143C - Web Design II

An advanced course where students will study an industry standard website development software application. Students will learn advanced techniques and aesthetics involved in information architecture and advanced interface design. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 2142C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2950C - Advanced Graphic Projects

An advanced Graphic Design course addressing common Graphic Design problems. Students will explore advanced software application functionality and creative, aesthetic, and portfolio development. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , ART 2603C , GRA 1151C , GRA 2190C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 1220C - Commercial Photography I

A beginning course that introduces students to the procedures and aesthetics of developing photographic illustrations for industrial

and advertising use. Students will gain experience using a high quality digital studio camera, electronic lighting, and digital applications of their work. It is recommended that students take PGY 1801C prior to or at the same time as this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

PGY 2802C - Digital Photography II

____ ____ Other Approved College Credits (GRA, PGY) _

An intermediate-level photography course where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 25

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total Program Credits Required: 64

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2140C - Multimedia I

An advanced course covering the development of multimedia projects incorporating a variety of digital media elements. Students will learn an industry standard digital video editing application and the aesthetic and technical considerations involved in content acquisition. Access to a miniDV camcorder suggested.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ART 2602C , GRA 1151C and PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 21

Total Core Credits Required: 21

Technical Elective Courses

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2141C - Multimedia II

An advanced course covering principles of design and information architecture surrounding interactive multimedia presentations. Students will learn an industry standard interactive DVD media authoring software application. Students will produce a finished interactive DVD.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
GRA 2140C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2142C - Web Design I

An introductory course covering the development of websites using an industry standard web development software application. Students will study the aesthetics and technical considerations involved with information architecture and basic interface design. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

GRA 2143C - Web Design II

An advanced course where students will study an industry standard website development software application. Students will learn advanced techniques and aesthetics involved in information architecture and advanced interface design. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
GRA 2142C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2950C - Advanced Graphic Projects

An advanced Graphic Design course addressing common Graphic Design problems. Students will explore advanced software application functionality and creative, aesthetic, and portfolio development. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ART 2602C , ART 2603C , GRA 1151C , GRA 2190C , PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

PGY 1220C - Commercial Photography I

A beginning course that introduces students to the procedures and aesthetics of developing photographic illustrations for industrial and advertising use. Students will gain experience using a high quality digital studio camera, electronic lighting, and digital applications of their work. It is recommended that students take PGY 1801C prior to or at the same time as this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

PGY 2802C - Digital Photography II

____ ____ Other Approved College Credits (GRA, PGY) _
An intermediate-level photography course where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 25

Drafting and Design Technology (AS)

Admission Program Objective Code 2051 State CIP Code 1615130102

Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificates in AutoCAD Foundations (CCC) (State CIP Code 0615130204) and/or Drafting Design (CCC) (State CIP Code 0615130101.

General Education

Total General Education Credits Required: 18

Core Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

for Drafting and Design student course should be taken with ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1320C - AutoCAD I

A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2350C - AutoCAD III

An advanced course designed to help students develop proficiency in the area of computer aided drafting and systems drafting. Topics covered include: transfer drawings, digitized drawings, explanatory drawings, multiview projections, exploded assemblies, pictorial drawings, auxiliary views, sections, details, geometric dimensioning and tolerancing, and CADD concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 22

Technical Elective Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

ETD 1112 - Mechanical Drafting I

The second of a sequence of courses in drafting which includes basic use of instruments, freehand lettering, geometric construction, orthographic projection, sections and conventional revolutions, dimensioning, inking, mechanical lettering, methods of reproduction, and developing computer-aided drafting skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 and ETD 1320C or equivalent

Corequisite(s):

ETD 1217 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1801C - Technical Illustration

The purpose of this course is to help students develop the skills, knowledge, and attitudes necessary to be job entry-level qualified as technical illustrators.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1112 or EGN 1130C , and ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2150 - Industrial Print Reading

The beginning level aspects of reading industrial prints such as drawing notes, title blocks, revision blocks, legends, schedules, multiviews, and parts list.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2219 - Advanced Geometric Dimensioning and Tolerancing

An advanced course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definitions and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, math for positional tolerancing, quality assurance methods and techniques, and manufacturing methods and techniques.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 2218 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2250 - Tolerance Stacks I

A course for engineers, designers, inspectors and other engineering personnel. This course consists of learning how to perform tolerance accumulation studies within a part or assembly to include: coordinate dimension stacks and stacks involving geometric tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 2218 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

ETD 2357C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2377C - 3D Studio Max I

Course is designed to use 3D Studio in rendering, and animation as a dynamic visualization tool for AutoCAD design images. Upon completion of this course, the user will be able to navigate through the modules of the program, model simple projects, set up scenes for rendering and animation, assign materials to objects, and define simple motion paths, input and output techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2731 - Mechanical Drafting II

A course that continues and completes the student’s study of the fundamentals intrinsic to all types of drafting. Topics covered include isometric, diametric, trimetric, oblique, and perspective projection, descriptive geometry, auxiliary views, related mathematics, precision dimensioning developing computer-aided drafting skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1112 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2735 - Mechanical Drafting III

A course that continues and completes the student’s study of the fundamentals intrinsic to all types of drafting. Topics covered include: isometric, diametric, trimetric, oblique, and perspective projection, descriptive geometry, auxiliary views, related mathematics, and precision dimensioning developing computer-aided drafting skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 2218 or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2802C - Technical Illustration II

The purpose of this course is to help students develop advanced skills, knowledge, and attitudes necessary as technical illustrators, to include oblique, and axiometric projections, perspective and exploded pictorial drawings, and related techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1411 - Advanced Manufacturing Processes

This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 1152C - Illustration II

____ ____ Other Approved College Credits _

An advanced graphic design course building upon the skills covered in Illustration I; the course includes increased challenges relating to conceptual skills and multi-software integration relating to typical print-based design problems. Access to an appropriate high quality digital camera is required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C .

Note:

▲Technology-Across-the-Curriculum Course.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2371C or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 22

Total Program Credits Required: 62

Drafting Design (CCC)

Admission Program of Study Code 6051 State CIP Code 0615130101
Students who successfully complete this certificate may be eligible to receive credits towards the Drafting and Design Technology (AS) degree (State CIP Code 1615130102).

Core Courses

ARC 2303A - Design 2.1

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):
ARC 2201 .

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 1272 - Blueprint Reading for Commercial Construction

A course to familiarize non-drafting students with techniques of blueprint reading and the fundamentals of construction methods that make blueprint reading meaningful.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EGN 1111C - Engineering Graphics

Covers the use of instruments, lettering practice; geometric construction; multiview projection and conventions, auxiliary views, section views, axonometric and oblique projections, rotation, patterns and development, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1102 or equivalent: prerequisite only applies to Architectural Drafting and Design students.

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1320C - AutoCAD I

A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1102 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 24

Early Childhood Education (AS)

Admission Program Objective Code 2020 State CIP Code 1413121003

Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Child Development Early Intervention (CCC) (State CIP Code 0419070904), Child Care Center Management Specialization (CCC) (State CIP Code 0419070906), Infant/Toddler Specialization (CCC) (State CIP Code 0419070907), and/or Preschool Specialization (CCC) (State CIP Code 0419070908).

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common

prerequisites.

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1002 - Early Childhood Program Administration

This course provides the student with management and administrative skills related to child care services. Instruction includes: director responsibilities; staff selection, supervision, and evaluation; planning for budget, nutritional services, facility maintenance, health, and safety; and marketing techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1201 - Infants and Toddlers

This course provides the student with information pertinent to the care of infants and toddlers. Special attention is given to selection of developmentally appropriate curriculum. Course work satisfies the Child Development Associate competency standards for Infant/Toddler.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

EEC 1601 - Assessment in Early Childhood Education

Designed to increase objectivity and proficiency in observing and interpreting children’s behavior in addition to increase awareness of normative patterns of children from birth through five years of age.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EEC 1750 - Guidance for Young Children

A study of principles, methods, guidance and discipline techniques used to promote positive social development in young children; influence of environment and developmental level of child on social behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student’s OJT objectives based on student’s goals and prior training. The supervisor will rate the student’s performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:
DEP 2100 , and EEC 1309 or EEC 1201 .

EEC 2220 - Language and Literacy Instruction In Early Childhood Education

Study of the principles, methods, and materials used to assist young children acquire basic skills to use language effectively and competently; evaluation and development of appropriate teaching materials to use with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
EEC 1309 .

EEC 2222 - Math and Science Instruction In Early Childhood Education

Study of the basic concepts, methods, and materials of mathematics and science appropriate to the education of young children. Identification of the role of staff members in the center for the education of young children. Assignment with young children in community agencies.

Credit Hour(s): 3 Credit Hours When Offered: (Spring and as needed) Prerequisite(s):
EEC 1309 .

EEC 2732 - Child Nutrition, Health and Safety

Methods of meeting physical needs of young children through nutrition and good health practices. Recognition of childhood

diseases and care of the handicapped child.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Total Core Credits Required: 45

Total Core Credits Required: 45

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total Program Credits Required: 63

Total Program Credits Required: 63

Total Program Credits Required: 63

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Emergency Administration & Management (AS)

Admission Program Objective Code 2093 State CIP Code 1743030200
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificates in Emergency Administrator & Manager (CCC) (State CIP Code 0743030201),Firefighter (Basic) (PSAV) (State CIP Code 1743030200) and/or Homeland Security Emergency Manager (CCC) (State CIP Code 0743030202).

General Education

Total General Education Credits Required: 18

Core Courses

FFP 1801 - Introduction to Emergency Management

This course will discuss emergency management practices and how they relate to natural and man-made disasters. It is designed to help the student develop an understanding of overall emergency management principles, practices, and standards in the local, national, and international environments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2820 - Emergency Preparedness

This course teaches all aspects of emergency preparedness and planning related to natural and man-made disasters, and basic principles of emergency management. Planning concepts and the planning process will be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2823 - Technical Applications in Emergency Management

This course explores issues and problems associated with the use of technology in emergency management. It examines strategies to overcome these issues and problems. Some of the subjects treated are use of the Internet, spatial analysis applications in vulnerability analysis, decision support systems, and emerging technologies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2834 - Societal Issues in Disaster Management

This course examines human response to disaster events, including political and economic factors influencing vulnerability. It examines how individuals and institutions make decisions at all levels of disaster response, it is an introduction to current research pertaining to the sociological aspects of disaster, and it will provide increased awareness of the potential and difficulties in using social science research as a basis for modifying public policy.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2841 - Contingency Planning for the Private Sector

This course is designed to assist students in developing effective public sector plans by using the National Incident Management System and the Incident Command System templates. The curriculum includes case studies and development procedures for private sector logistics management and employee support planning.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 15

Total Core Credits Required: 15

Total Program Credits Required: 60

Technical Elective Courses

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CJL 1100 - Criminal Law

Includes the study of the fundamentals of Criminal Law to include historical background and development, jurisdiction, the criminal act and responsibility, as well as, classification and analysis of Florida Statutes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CJL 1400 - Criminal Procedure

Includes the study of the fundamentals of constitutional, criminal and civil law; principles, duties and mechanics of criminal procedures in Florida as applied to arrest, search, seizure, and court processing; and a functional analysis of the rules of evidence in court procedures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 1002 - Domestic and International Terrorism

This course is designed to assist students in recognizing and understanding the elements and objectives of terrorism and 4th Generation Warfare and how they affect public safety planning and response operations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1004 - Introduction to NRF and NIMS

Designed to inform emergency responders and planners of the key elements in the National Response Framework (NRF) and the National Incident Management System (NIMS) and their relationship to planning and response operations. The curriculum includes classroom exercises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1222 - Psychological Management of Disaster Victims

This course introduces students to a general overview of terrorism and the potential psychological effect of terrorist events on victims.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1552 - Critical Infrastructure Protection

This course introduces participants to the Critical Infrastructure Protection (CIP) process to secure the effective protection of the people, physical entities, and cyber systems that are critical. The CIP course will guide leaders in the systematic protection of critical infrastructures. More basically, the course will introduce decision sequence that assists leaders and future leaders in ultimately determining exactly what really needs protection as well as when. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1562 - Homeland Security Threat Strategy

This course addresses problems of terrorism from a criminal justice perspective. It is designed to provide students with an understanding of the major issues associated with responding to terrorism in a democratic society. The course focuses on the threat of terrorism to the United States and will review specific strategies to deter terrorist threats to the U.S. The course will assess the relative effectiveness of anti-terrorist activities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1631 - Planning Considerations for Terror Prevention

This course introduces participants to various aspects of planning for potential terrorist activity. The student will be introduced to basic principles of emergency management, communications, security threats, and the effects these operations may have on personnel. The student will learn techniques for evaluating their own jurisdiction's vulnerability against terrorist attacks. Students will gain knowledge of the roles and responsibilities of local agencies during terrorism responses. The course introduces participants to various aspects of emergency management of terrorist activity.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1751 - Homeland Security Policy and Law

This course introduces participants to the major debates about balancing democratic freedoms with security from the Patriot Act to Supreme Court decisions on detention powers. The course provides insight into legal strategies necessary to confront ongoing national security threats. The course examines laws designed to preserve both our security and our democratic way of life.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 2056 - Disaster Response Operations

This course examines the response protocol, logistics, responsibilities, interagency support, and concepts of front end planning involved in preparation for a catastrophic event. Students will be introduced to the development of an emergency response plan that will include concepts such as lookout, awareness, communications, escape, safety (laces), training, and various agency relationships.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1505 - Fire Prevention Practices

This course is a survey of the principles of fire prevention and investigation. It includes a study of fire hazards in various occupancies; a review of fire prevention codes; a study of procedures and techniques of fire prevention inspection, to include surveying and mapping, recognition and elimination of fire hazards, public relations, methods of determining the area of fire origin, fire cause, fire spread and location and preservation of evidence.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1540 - Private Fire Protection Systems I

This is a study of private fire protection and detection systems, such as sprinkler and standpipe systems, chemical extinguishing systems, detection systems and devices. Each system is discussed as to its need, construction, preventive maintenance and individual uses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1740 - Fire Service Course Delivery

The curriculum draws from many recognized authorities in exploring the methods and mechanics of imparting information and adult learning principles. The course emphasizes techniques which have wide application in teaching situations, as well as devices for specific areas. Also stressed are measuring teaching effectiveness, the use of media and visual aids.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1800 - Disaster Education for Individuals and the Community

This course provides a study of the design, development, and delivery of public disaster safety education and programs including: methods of identification of disaster safety programs, the selection of target programs and strategies of affect reduction, methods of designing and implementing information and educational programs, and methods of evaluating a program's impact. Studies include theoretical and practical skills training in individual, group, and mass media communications, instructional skills, planning priorities,

and evaluation techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1810 - Firefighting Tactics and Strategy I

This course is a study of the basic concepts involved in firefighting, including the behavior, firefighting fundamentals and principles of extinguishment, the proper role for a utilization of various fire companies, and pre-planning fire problems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1826 - Incident Management

This course contrasts the major forms of Incident Management/Incident Command Systems. It illuminates these differences and offers a fresh perspective on the concepts on which these systems are founded in order to make them more accessible and user-friendly. It bridges the gap between their theoretical and academic foundations and their real-world applications, and makes them more applicable to the professional’s daily needs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1880 - Public Policy in Emergency Management

This course provides the student specialized knowledge and skills necessary to develop public policy related to emergency management, providing public policy leadership in the area of emergency management as part of the larger responsibility to protect the general welfare of the people. Topics of discussion include: government disaster programs; agency participation, policy design and implementation, and administrative processes involved in managing disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1881 - Emergency Management Leadership

This course provides the student with the knowledge and skills necessary for effective interpersonal relationships, including conflict management and the use of power and influence as they apply to emergency administration and leadership. It addresses the budget process and related administrative duties of an emergency management program manager.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1890 - Emergency Management Principles for Tourism and Hospitality Industry

This course analyzes emergency management functions and responsibilities within the tourism and hospitality industry. Particular emphasis is placed in the areas of administration, organization, communications, and human relations. Students will learn how historical mistakes can influence human response to disaster situations, and some of the current legal and human challenges posed when dealing with disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2521 - Construction Documents and Plans Review

This curriculum provides the student knowledge of how to assimilate information contained in working drawings and specifications as they relate to the fire inspector. The curriculum includes how to interpret conventional graphic communications. Accepted standards and conventions are introduced. Symbols, abbreviations, principles of technical projection, as well as, a review of construction arithmetic and geometry are included.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2811 - Firefighting Tactics and Strategy II

This course is a study of the principles utilized on the fire ground for maximum manpower and equipment utilization; fire ground administration starting with a small fire on up through major conflagrations. Emphasis will be on developing thinking skills in relation to crises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

FFP 1810 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GIS 1040C - Introduction to Geographic Information Systems

____ ____ College Credit Electives (CCJ1, CJT1, CJT2, CJD1, CJD2, CJL, DSC, ETI, FFP1, FFP2, GIS) _

This course will provide students with an introduction to Geographic Information Systems (GIS). Lectures will include: what is GIS, GIS applications, fundamentals such as map projections, vector versus raster data models, creating and maintaining geographic databases, spatial analysis and modeling, cartography and map production. Lab sessions will include the hands on use of the ArcGIS software. Students will receive a 180-day version of the software with their textbook that they can use at home to complete assignments.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

moderate familiarity with the Windows operating system, preferably XP.

Total Technical Elective Credits Required: 27

Total Program Credits Required: 60

Core Courses

FFP 1801 - Introduction to Emergency Management

This course will discuss emergency management practices and how they relate to natural and man-made disasters. It is designed to help the student develop an understanding of overall emergency management principles, practices, and standards in the local, national, and international environments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2820 - Emergency Preparedness

This course teaches all aspects of emergency preparedness and planning related to natural and man-made disasters, and basic principles of emergency management. Planning concepts and the planning process will be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2823 - Technical Applications in Emergency Management

This course explores issues and problems associated with the use of technology in emergency management. It examines strategies to overcome these issues and problems. Some of the subjects treated are use of the Internet, spatial analysis applications in vulnerability analysis, decision support systems, and emerging technologies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2834 - Societal Issues in Disaster Management

This course examines human response to disaster events, including political and economic factors influencing vulnerability. It examines how individuals and institutions make decisions at all levels of disaster response, it is an introduction to current research pertaining to the sociological aspects of disaster, and it will provide increased awareness of the potential and difficulties in using social science research as a basis for modifying public policy.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2841 - Contingency Planning for the Private Sector

This course is designed to assist students in developing effective public sector plans by using the National Incident Management System and the Incident Command System templates. The curriculum includes case studies and development procedures for private sector logistics management and employee support planning.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 15

Total Core Credits Required: 15

Technical Elective Courses

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CJL 1100 - Criminal Law

Includes the study of the fundamentals of Criminal Law to include historical background and development, jurisdiction, the criminal act and responsibility, as well as, classification and analysis of Florida Statutes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CJL 1400 - Criminal Procedure

Includes the study of the fundamentals of constitutional, criminal and civil law; principles, duties and mechanics of criminal procedures in Florida as applied to arrest, search, seizure, and court processing; and a functional analysis of the rules of evidence in court procedures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 1002 - Domestic and International Terrorism

This course is designed to assist students in recognizing and understanding the elements and objectives of terrorism and 4th Generation Warfare and how they affect public safety planning and response operations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1004 - Introduction to NRF and NIMS

Designed to inform emergency responders and planners of the key elements in the National Response Framework (NRF) and the National Incident Management System (NIMS) and their relationship to planning and response operations. The curriculum includes classroom exercises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1222 - Psychological Management of Disaster Victims

This course introduces students to a general overview of terrorism and the potential psychological effect of terrorist events on victims.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1552 - Critical Infrastructure Protection

This course introduces participants to the Critical Infrastructure Protection (CIP) process to secure the effective protection of the people, physical entities, and cyber systems that are critical. The CIP course will guide leaders in the systematic protection of critical infrastructures. More basically, the course will introduce decision sequence that assists leaders and future leaders in ultimately determining exactly what really needs protection as well as when. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1562 - Homeland Security Threat Strategy

This course addresses problems of terrorism from a criminal justice perspective. It is designed to provide students with an understanding of the major issues associated with responding to terrorism in a democratic society. The course focuses on the threat of terrorism to the United States and will review specific strategies to deter terrorist threats to the U.S. The course will assess the relative effectiveness of anti-terrorist activities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1631 - Planning Considerations for Terror Prevention

This course introduces participants to various aspects of planning for potential terrorist activity. The student will be introduced to basic principles of emergency management, communications, security threats, and the effects these operations may have on personnel. The student will learn techniques for evaluating their own jurisdiction's vulnerability against terrorist attacks. Students will gain knowledge of the roles and responsibilities of local agencies during terrorism responses. The course introduces participants to various aspects of emergency management of terrorist activity.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1751 - Homeland Security Policy and Law

This course introduces participants to the major debates about balancing democratic freedoms with security from the Patriot Act to Supreme Court decisions on detention powers. The course provides insight into legal strategies necessary to confront ongoing national security threats. The course examines laws designed to preserve both our security and our democratic way of life.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 2056 - Disaster Response Operations

This course examines the response protocol, logistics, responsibilities, interagency support, and concepts of front end planning involved in preparation for a catastrophic event. Students will be introduced to the development of an emergency response plan that will include concepts such as lookout, awareness, communications, escape, safety (laces), training, and various agency relationships.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1505 - Fire Prevention Practices

This course is a survey of the principles of fire prevention and investigation. It includes a study of fire hazards in various occupancies; a review of fire prevention codes; a study of procedures and techniques of fire prevention inspection, to include surveying and mapping, recognition and elimination of fire hazards, public relations, methods of determining the area of fire origin, fire cause, fire spread and location and preservation of evidence.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1540 - Private Fire Protection Systems I

This is a study of private fire protection and detection systems, such as sprinkler and standpipe systems, chemical extinguishing systems, detection systems and devices. Each system is discussed as to its need, construction, preventive maintenance and individual uses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1740 - Fire Service Course Delivery

The curriculum draws from many recognized authorities in exploring the methods and mechanics of imparting information and adult learning principles. The course emphasizes techniques which have wide application in teaching situations, as well as devices for specific areas. Also stressed are measuring teaching effectiveness, the use of media and visual aids.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1800 - Disaster Education for Individuals and the Community

This course provides a study of the design, development, and delivery of public disaster safety education and programs including: methods of identification of disaster safety programs, the selection of target programs and strategies of affect reduction, methods of designing and implementing information and educational programs, and methods of evaluating a program's impact. Studies include theoretical and practical skills training in individual, group, and mass media communications, instructional skills, planning priorities,

and evaluation techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1810 - Firefighting Tactics and Strategy I

This course is a study of the basic concepts involved in firefighting, including the behavior, firefighting fundamentals and principles of extinguishment, the proper role for a utilization of various fire companies, and pre-planning fire problems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1826 - Incident Management

This course contrasts the major forms of Incident Management/Incident Command Systems. It illuminates these differences and offers a fresh perspective on the concepts on which these systems are founded in order to make them more accessible and user-friendly. It bridges the gap between their theoretical and academic foundations and their real-world applications, and makes them more applicable to the professional’s daily needs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1880 - Public Policy in Emergency Management

This course provides the student specialized knowledge and skills necessary to develop public policy related to emergency management, providing public policy leadership in the area of emergency management as part of the larger responsibility to protect the general welfare of the people. Topics of discussion include: government disaster programs; agency participation, policy design and implementation, and administrative processes involved in managing disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1881 - Emergency Management Leadership

This course provides the student with the knowledge and skills necessary for effective interpersonal relationships, including conflict management and the use of power and influence as they apply to emergency administration and leadership. It addresses the budget process and related administrative duties of an emergency management program manager.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1890 - Emergency Management Principles for Tourism and Hospitality Industry

This course analyzes emergency management functions and responsibilities within the tourism and hospitality industry. Particular emphasis is placed in the areas of administration, organization, communications, and human relations. Students will learn how historical mistakes can influence human response to disaster situations, and some of the current legal and human challenges posed when dealing with disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2521 - Construction Documents and Plans Review

This curriculum provides the student knowledge of how to assimilate information contained in working drawings and specifications as they relate to the fire inspector. The curriculum includes how to interpret conventional graphic communications. Accepted standards and conventions are introduced. Symbols, abbreviations, principles of technical projection, as well as, a review of construction arithmetic and geometry are included.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2811 - Firefighting Tactics and Strategy II

This course is a study of the principles utilized on the fire ground for maximum manpower and equipment utilization; fire ground administration starting with a small fire on up through major conflagrations. Emphasis will be on developing thinking skills in relation to crises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

FFP 1810 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GIS 1040C - Introduction to Geographic Information Systems

____ ____ College Credit Electives (CCJ1, CJT1, CJT2, CJD1, CJD2, CJL, DSC, ETI, FFP1, FFP2, GIS) _

This course will provide students with an introduction to Geographic Information Systems (GIS). Lectures will include: what is GIS, GIS applications, fundamentals such as map projections, vector versus raster data models, creating and maintaining geographic databases, spatial analysis and modeling, cartography and map production. Lab sessions will include the hands on use of the ArcGIS software. Students will receive a 180-day version of the software with their textbook that they can use at home to complete assignments.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

moderate familiarity with the Windows operating system, preferably XP.

Total Technical Elective Credits Required: 27

Emergency Administrator & Manager (CCC)

Admission Program of Study Code 6093 State CIP Code 0743030201

Students who successfully complete this certificate may be eligible to receive credits towards the Emergency Administration & Management (AS) (State CIP Code 1743030200).

Core Courses

DSC 1552 - Critical Infrastructure Protection

This course introduces participants to the Critical Infrastructure Protection (CIP) process to secure the effective protection of the people, physical entities, and cyber systems that are critical. The CIP course will guide leaders in the systematic protection of critical infrastructures. More basically, the course will introduce decision sequence that assists leaders and future leaders in ultimately determining exactly what really needs protection as well as when. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 2056 - Disaster Response Operations

This course examines the response protocol, logistics, responsibilities, interagency support, and concepts of front end planning involved in preparation for a catastrophic event. Students will be introduced to the development of an emergency response plan that will include concepts such as lookout, awareness, communications, escape, safety (laces), training, and various agency relationships.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1800 - Disaster Education for Individuals and the Community

This course provides a study of the design, development, and delivery of public disaster safety education and programs including: methods of identification of disaster safety programs, the selection of target programs and strategies of affect reduction, methods of designing and implementing information and educational programs, and methods of evaluating a program’s impact. Studies include theoretical and practical skills training in individual, group, and mass media communications, instructional skills, planning priorities, and evaluation techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1826 - Incident Management

This course contrasts the major forms of Incident Management/Incident Command Systems. It illuminates these differences and offers a fresh perspective on the concepts on which these systems are founded in order to make them more accessible and user-friendly. It bridges the gap between their theoretical and academic foundations and their real-world applications, and makes them more applicable to the professional’s daily needs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1880 - Public Policy in Emergency Management

This course provides the student specialized knowledge and skills necessary to develop public policy related to emergency management, providing public policy leadership in the area of emergency management as part of the larger responsibility to protect the general welfare of the people. Topics of discussion include: government disaster programs; agency participation, policy design and implementation, and administrative processes involved in managing disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1881 - Emergency Management Leadership

This course provides the student with the knowledge and skills necessary for effective interpersonal relationships, including conflict management and the use of power and influence as they apply to emergency administration and leadership. It addresses the budget process and related administrative duties of an emergency management program manager.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1890 - Emergency Management Principles for Tourism and Hospitality Industry

____ ____ College Credit Electives (CCJ1, CJT1, CJT2, CJD1, CJD2, CJL, DSC, ETI, FFP1, FFP2, GIS) 3 Credit Hours
This course analyzes emergency management functions and responsibilities within the tourism and hospitality industry. Particular emphasis is placed in the areas of administration, organization, communications, and human relations. Students will learn how historical mistakes can influence human response to disaster situations, and some of the current legal and human challenges posed when dealing with disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 24

Total Core Credits Required: 24

Total Program Credits Required: 24

Core Courses

DSC 1552 - Critical Infrastructure Protection

This course introduces participants to the Critical Infrastructure Protection (CIP) process to secure the effective protection of the people, physical entities, and cyber systems that are critical. The CIP course will guide leaders in the systematic protection of critical infrastructures. More basically, the course will introduce decision sequence that assists leaders and future leaders in ultimately determining exactly what really needs protection as well as when. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 2056 - Disaster Response Operations

This course examines the response protocol, logistics, responsibilities, interagency support, and concepts of front end planning involved in preparation for a catastrophic event. Students will be introduced to the development of an emergency response plan that will include concepts such as lookout, awareness, communications, escape, safety (laces), training, and various agency relationships.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1800 - Disaster Education for Individuals and the Community

This course provides a study of the design, development, and delivery of public disaster safety education and programs including: methods of identification of disaster safety programs, the selection of target programs and strategies of affect reduction, methods of designing and implementing information and educational programs, and methods of evaluating a program's impact. Studies include theoretical and practical skills training in individual, group, and mass media communications, instructional skills, planning priorities, and evaluation techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1826 - Incident Management

This course contrasts the major forms of Incident Management/Incident Command Systems. It illuminates these differences and offers a fresh perspective on the concepts on which these systems are founded in order to make them more accessible and user-friendly. It bridges the gap between their theoretical and academic foundations and their real-world applications, and makes them more applicable to the professional's daily needs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1880 - Public Policy in Emergency Management

This course provides the student specialized knowledge and skills necessary to develop public policy related to emergency management, providing public policy leadership in the area of emergency management as part of the larger responsibility to protect the general welfare of the people. Topics of discussion include: government disaster programs; agency participation, policy design and implementation, and administrative processes involved in managing disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1881 - Emergency Management Leadership

This course provides the student with the knowledge and skills necessary for effective interpersonal relationships, including conflict management and the use of power and influence as they apply to emergency administration and leadership. It addresses the budget process and related administrative duties of an emergency management program manager.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1890 - Emergency Management Principles for Tourism and Hospitality Industry

____ ____ College Credit Electives (CCJ1, CJT1, CJT2, CJD1, CJD2, CJL, DSC, ETI, FFP1, FFP2, GIS) 3 Credit Hours

This course analyzes emergency management functions and responsibilities within the tourism and hospitality industry. Particular emphasis is placed in the areas of administration, organization, communications, and human relations. Students will learn how historical mistakes can influence human response to disaster situations, and some of the current legal and human challenges posed when dealing with disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 24

Total Core Credits Required: 24

Total Program Credits Required: 24

Emergency Medical Services (AS)

Admission Program Objective Code 2095 State CIP Code 1351090402

This curriculum forms the last stage of a career ladder program progression from Emergency Medical Technician (Basic) (CCC) (State CIP Code 0351090400) to Paramedic (CCC) (State CIP Code 0351090405) to Emergency Medical Services (AS) degree. Students interested in pursuing this program must have a current and active Florida Bureau of Emergency Medical Services EMT/Paramedic licensure. Contact the Emergency Services/Paramedic program at (850) 729-4924 for more information.

General Education

Total General Education Credits Required: 18

General Education

Total General Education Credits Required: 18

EMT Certificate Courses

EMS 1119C - Emergency Medical Technician

Emergency Medical Technician is designed to prepare the student with the necessary fundamental knowledge to be successful in meeting Emergency Medical Technician certification and licensing requirements. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic. There is emphasis on assessment based learning and complies with National DOT EMT Basic curriculum.

Credit Hour(s): 6 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1401L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1335 - Emergency Vehicle Operators Course

Students receive basic education and information on the safe and effective operation of emergency vehicles.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Program Director.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1401L - EMT Lab

An integrated experience that is designed to allow the student to apply practical experience to material learned in Emergency Medical Technician. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic in the laboratory environment, area hospitals and advanced life support EMS ambulances. There is emphasis on assessment based learning and complies with National DOT EMT-Basic curriculum.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1119C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total EMT Credits Required: 11

Total EMT Credits Required: 11

Total EMT Credits Required: 11

General Education

Total General Education Credits Required: 18

Paramedic Certificate Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies,

musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2425L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

permission of the instructor

Corequisite(s):

EMS 2233 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program

Corequisite(s):

EMS 2231C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):

EMS 2435L

Corequisite(s):

EMS 2232C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EMS 2232C , EMS 2436L and permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate and CPR for Health Care Providers certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

____ ____ Other Approved College Credits (CCJ, EMS, FFP preferred) _

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Paramedic Credits Required: 44

Total Program Credits Required: 73

Total Program Credits Required: 73

Paramedic Certificate Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):
EMS 2436L .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):
EMS 2425L .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):
permission of the instructor

Corequisite(s):
EMS 2233 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Paramedic program

Corequisite(s):
EMS 2231C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):
EMS 2435L

Corequisite(s):

EMS 2232C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EMS 2232C , EMS 2436L and permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate and CPR for Health Care Providers certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

____ ____ Other Approved College Credits (CCJ, EMS, FFP preferred) _

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Paramedic Credits Required: 44

General Education

Total General Education Credits Required: 18

Paramedic Certificate Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):
EMS 2436L .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):
EMS 2425L .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):
permission of the instructor

Corequisite(s):
EMS 2233 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Paramedic program

Corequisite(s):
EMS 2231C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):
EMS 2435L

Corequisite(s):

EMS 2232C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EMS 2232C , EMS 2436L and permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate and CPR for Health Care Providers certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

____ ____ Other Approved College Credits (CCJ, EMS, FFP preferred) _

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Paramedic Credits Required: 44

General Education

Total General Education Credits Required: 18

Total Program Credits Required: 73

EMT Certificate Courses

EMS 1119C - Emergency Medical Technician

Emergency Medical Technician is designed to prepare the student with the necessary fundamental knowledge to be successful in meeting Emergency Medical Technician certification and licensing requirements. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic. There is emphasis on assessment based learning and complies with National DOT EMT Basic curriculum.

Credit Hour(s): 6 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1401L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1335 - Emergency Vehicle Operators Course

Students receive basic education and information on the safe and effective operation of emergency vehicles.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Program Director.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1401L - EMT Lab

An integrated experience that is designed to allow the student to apply practical experience to material learned in Emergency Medical Technician. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic in the laboratory environment, area hospitals and advanced life support EMS ambulances. There is emphasis on assessment based learning and complies with National DOT EMT-Basic curriculum.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1119C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total EMT Credits Required: 11

Total EMT Credits Required: 11

Total EMT Credits Required: 11

EMT Certificate Courses

EMS 1119C - Emergency Medical Technician

Emergency Medical Technician is designed to prepare the student with the necessary fundamental knowledge to be successful in meeting Emergency Medical Technician certification and licensing requirements. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic. There is emphasis on assessment based learning and complies with National DOT EMT Basic curriculum.

Credit Hour(s): 6 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1401L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1335 - Emergency Vehicle Operators Course

Students receive basic education and information on the safe and effective operation of emergency vehicles.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Program Director.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1401L - EMT Lab

An integrated experience that is designed to allow the student to apply practical experience to material learned in Emergency Medical Technician. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic in the laboratory environment, area hospitals and advanced life support EMS ambulances. There is emphasis on assessment based learning and complies with National DOT EMT-Basic curriculum.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1119C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total EMT Credits Required: 11

Total EMT Credits Required: 11

Total EMT Credits Required: 11

Paramedic Certificate Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2425L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on

victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

permission of the instructor

Corequisite(s):

EMS 2233 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program

Corequisite(s):

EMS 2231C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):

EMS 2435L

Corequisite(s):

EMS 2232C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EMS 2232C , EMS 2436L and permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate and CPR for Health Care Providers certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

____ ____ Other Approved College Credits (CCJ, EMS, FFP preferred) _

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Paramedic Credits Required: 44

Total Program Credits Required: 73

Total Program Credits Required: 73

Emergency Medical Technician (Basic) (CCC)

Admission Program of Study Code 6096A State CIP Code 0351090400
Admission will be through a Limited Access application process. Graduates of this program will be eligible to apply for the examination to become a Florida certified Emergency Medical Technician and a National Registry Emergency Medical Technician Basic. Students interested in pursuing this program should contact the Emergency Medical Services Office at (850) 729-4924. Students who successfully complete this certificate may be eligible to receive credits towards the Emergency Medical Services (AS) degree (State CIP Code 1351090402).

Core Courses

EMS 1119C - Emergency Medical Technician

Emergency Medical Technician is designed to prepare the student with the necessary fundamental knowledge to be successful in meeting Emergency Medical Technician certification and licensing requirements. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic. There is emphasis on assessment based learning and complies with National DOT EMT Basic curriculum.

Credit Hour(s): 6 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1401L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1335 - Emergency Vehicle Operators Course

Students receive basic education and information on the safe and effective operation of emergency vehicles.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Program Director.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1401L - EMT Lab

An integrated experience that is designed to allow the student to apply practical experience to material learned in Emergency Medical Technician. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic in the laboratory environment, area hospitals and advanced life support EMS ambulances. There is emphasis on assessment based learning and complies with National DOT EMT-Basic curriculum.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1119C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Program Credits Required: 11

Total Program Credits Required: 11

Engineering Technology Support Specialist (CCC)

Admission Program of Study Code 6012 State CIP Code 0615000007
Students who successfully complete this certificate may be eligible to receive credits towards one of the Engineering Technology (AS) degree (State CIP Code 1615000001) specializations: Engineering Technology - Advanced Technology Specialization (AT) Option (AS) , Engineering Technology - Digital Design & Modeling Specialization Option (AS), Engineering Technology - Digital Manufacturing Specialization (DM) Option (AS) or Engineering Technology - Mechanical Design & Fabrication Specialization Option (AS) .

Core Courses

EET 1084C - Introduction to Electronics

This course introduces the fundamentals, terminology, and applications used in the electronics industry. The topic coverage will include circuit theory principles, electronic components, transistor usage, amplifiers, power supplies, digital logic techniques, and electronic instruments. The course will also include some basic laboratory exercises to strengthen the topic coverage as it pertains to measurement involving both analog and digital circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1320C - AutoCAD I

A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1420 - Properties of Materials and Cutting Tools

This course is designed to provide the student with an introduction to the basic properties of materials, principles and processes in the metal working and plastics field, and tools and machinery involved in manufacture of metals of plastics. This course covers non-chip producing and chip producing manufacturing processes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1710 - Occupational Safety

A basic course in occupational safety and health covering such topics as: theories of accident causation, workplace hazards, hazard analysis and prevention, accident reporting, OSHA, ergonomics, product safety, workers' compensation, and stress on the job.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2110 - Total Quality Tools

This course prepares students to effectively solve business/process/product problems, track process performance, find process and product improvement opportunities, and validate improvements made, using the necessary intellectual tools and procedures including: Five-S, flow charting, Pareto analysis, cause and effect diagrams, histograms, check sheets, scatter diagrams, stratification, statistical process control, failure mode and effects analysis.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETM 1010C - Mechanical Measurement and Instrumentation

This course provides the foundation for mechanical and electronic measurement techniques used in manufacturing environments. The course will integrate the concepts, principles, and techniques of mechanical measurement with the use of various types of instruments including micrometers, verniers, calipers, height gages, digital multimeters and other types of measuring equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Program Credits Required: 18

Total Program Credits Required: 18

Engineering Technology - Advanced Technology Specialization (AT) Option (AS)

Admission Program Objective Code 2010C State CIP Code 1615000001
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the four specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, and Digital Manufacturing with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.
The 18 credit hour core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification.
Students who successfully complete selected courses from this program of study may be eligible to receive the Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007) certificate.

Technical Elective Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
for Drafting and Design student course should be taken with ETD 1102 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):
ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1411 - Advanced Manufacturing Processes

____ _____ - Other Approved College/Vocational Credits (will accommodate the Electrical Apprenticeship Wiring Program)

This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2111 - Quality Tools II

This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Technical Elective Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

for Drafting and Design student course should be taken with ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1411 - Advanced Manufacturing Processes

____ _____ - Other Approved College/Vocational Credits (will accommodate the Electrical Apprenticeship Wiring Program)
This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2111 - Quality Tools II

This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Engineering Technology - Digital Design & Modeling Specialization Option (AS)

Admission Program Objective Code 2010B State CIP Code 1615000001
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the four specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, and Digital Manufacturing with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.
The 18 credit hour core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification.
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Computer-Aided Design and Drafting (CCC) (State CIP Code 0615000004), Rapid Prototyping Specialist (CCC) (State CIP Code 0615000012) and/or Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007).

Technical Elective Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2350C - AutoCAD III

An advanced course designed to help students develop proficiency in the area of computer aided drafting and systems drafting. Topics covered include: transfer drawings, digitized drawings, explanatory drawings, multiview projections, exploded assemblies, pictorial drawings, auxiliary views, sections, details, geometric dimensioning and tolerancing, and CADD concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

ETD 2357C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
ETD 2364C or higher or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 2371C or permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Technical Elective Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1320C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2350C - AutoCAD III

An advanced course designed to help students develop proficiency in the area of computer aided drafting and systems drafting. Topics covered include: transfer drawings, digitized drawings, explanatory drawings, multiview projections, exploded assemblies, pictorial drawings, auxiliary views, sections, details, geometric dimensioning and tolerancing, and CADD concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

ETD 2357C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2371C or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Engineering Technology - Digital Manufacturing Specialization (DM) Option (AS)

Admission Program Objective Code 2010D State CIP Code 1615000001

The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the four specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, and Digital Manufacturing with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.

The 18 credit hour core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification.
Students who successfully complete selected courses from this program of study may be eligible to receive the Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007), Digital Manufacturing Specialist (CCC) (State CIP Code 0615000009), and Rapid Prototyping Specialist (CCC) (State CIP code 0615000012) certificates.

Technical Elective Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

for Drafting and Design student course should be taken with ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

ETD 2357C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1411 - Advanced Manufacturing Processes

This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2111 - Quality Tools II

This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2371C or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 1203C - Introduction to Machining

In this course, the student will learn how to interpret engineered blueprint drawings, lay out scribe lines and marks for sawing, rough saw and cut materials; utilize precise indicating devices for tramming of machines, indicating vises, sine bars, angle plates, etc. in order to set up and operate various machines; square, face, cut, turn down, and bore material to maintain strict machining tolerances; develop a basic knowledge and understanding of industrial materials to calculate proper speeds, feeds, and RPM's and safely operate heavy-duty industrial machinery.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETM 1010C and ETD 1320C or equivalent experience

Note:

This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2213C - Machining I

In this course students will continue to develop basic machining skills and better utilize machine tool accessories to assist in different machining operations to include: set up and utilize machine tool accessories, vertical knee milling operation, manual lathe operations, manual lathe threading and drill press operations.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 1203C and ETD 2218 or equivalent experience

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2214C - Machining II and Introduction to CNC

In this course, utilizing the skill sets learned in Introduction to Machining and Machining I the student will bring the machining process together to fabricate a complete assembly. In addition, this course includes an introduction to CNC.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 2213C

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Technical Elective Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

for Drafting and Design student course should be taken with ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

ETD 2357C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1411 - Advanced Manufacturing Processes

This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2111 - Quality Tools II

This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various

machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2371C or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 1203C - Introduction to Machining

In this course, the student will learn how to interpret engineered blueprint drawings, lay out scribe lines and marks for sawing, rough saw and cut materials; utilize precise indicating devices for tramming of machines, indicating vises, sine bars, angle plates, etc. in order to set up and operate various machines; square, face, cut, turn down, and bore material to maintain strict machining tolerances; develop a basic knowledge and understanding of industrial materials to calculate proper speeds, feeds, and RPM's and safely operate heavy-duty industrial machinery.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETM 1010C and ETD 1320C or equivalent experience

Note:

This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2213C - Machining I

In this course students will continue to develop basic machining skills and better utilize machine tool accessories to assist in

different machining operations to include: set up and utilize machine tool accessories, vertical knee milling operation, manual lathe operations, manual lathe threading and drill press operations.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
PMT 1203C and ETD 2218 or equivalent experience

Note:
*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2214C - Machining II and Introduction to CNC

In this course, utilizing the skill sets learned in Introduction to Machining and Machining I the student will bring the machining process together to fabricate a complete assembly. In addition, this course includes an introduction to CNC.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
PMT 2213C

Note:
*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Technical Elective Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
for Drafting and Design student course should be taken with ETD 1102 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

ETD 2357C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1411 - Advanced Manufacturing Processes

This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2111 - Quality Tools II

This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2371C or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 1203C - Introduction to Machining

In this course, the student will learn how to interpret engineered blueprint drawings, lay out scribe lines and marks for sawing, rough saw and cut materials; utilize precise indicating devices for tramming of machines, indicating vises, sine bars, angle plates, etc. in order to set up and operate various machines; square, face, cut, turn down, and bore material to maintain strict machining tolerances; develop a basic knowledge and understanding of industrial materials to calculate proper speeds, feeds, and RPM's and safely operate heavy-duty industrial machinery.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETM 1010C and ETD 1320C or equivalent experience

Note:

This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2213C - Machining I

In this course students will continue to develop basic machining skills and better utilize machine tool accessories to assist in different machining operations to include: set up and utilize machine tool accessories, vertical knee milling operation, manual lathe operations, manual lathe threading and drill press operations.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 1203C and ETD 2218 or equivalent experience

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2214C - Machining II and Introduction to CNC

In this course, utilizing the skill sets learned in Introduction to Machining and Machining I the student will bring the machining process together to fabricate a complete assembly. In addition, this course includes an introduction to CNC.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 2213C

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Engineering Technology - Mechanical Design & Fabrication Specialization Option (AS)

Admission Program Objective Code 2010A State CIP Code 1615000001
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the four specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, and Digital Manufacturing with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.
The 18 credit hour core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification.
Students who successfully complete selected courses from this program of study may be eligible to receive the CNC Machinist/Fabricator (CCC) (State CIP Code 0615080502), the Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007) and/or the Applied Welding Technologies (PSAV) (State CIP Code 0648050802) certificates.

Technical Elective Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

for Drafting and Design student course should be taken with ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to

ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1411 - Advanced Manufacturing Processes

This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2111 - Quality Tools II

This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 1203C - Introduction to Machining

In this course, the student will learn how to interpret engineered blueprint drawings, lay out scribe lines and marks for sawing, rough saw and cut materials; utilize precise indicating devices for tramming of machines, indicating vises, sine bars, angle plates, etc. in order to set up and operate various machines; square, face, cut, turn down, and bore material to maintain strict machining tolerances; develop a basic knowledge and understanding of industrial materials to calculate proper speeds, feeds, and RPM's and safely operate heavy-duty industrial machinery.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETM 1010C and ETD 1320C or equivalent experience

Note:

This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2213C - Machining I

In this course students will continue to develop basic machining skills and better utilize machine tool accessories to assist in different machining operations to include: set up and utilize machine tool accessories, vertical knee milling operation, manual lathe operations, manual lathe threading and drill press operations.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 1203C and ETD 2218 or equivalent experience

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2214C - Machining II and Introduction to CNC

In this course, utilizing the skill sets learned in Introduction to Machining and Machining I the student will bring the machining process together to fabricate a complete assembly. In addition, this course includes an introduction to CNC.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 2213C

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Technical Elective Courses

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

for Drafting and Design student course should be taken with ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETI 1411 - Advanced Manufacturing Processes

This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2111 - Quality Tools II

This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 1203C - Introduction to Machining

In this course, the student will learn how to interpret engineered blueprint drawings, lay out scribe lines and marks for sawing, rough saw and cut materials; utilize precise indicating devices for tramming of machines, indicating vises, sine bars, angle plates, etc. in order to set up and operate various machines; square, face, cut, turn down, and bore material to maintain strict machining tolerances; develop a basic knowledge and understanding of industrial materials to calculate proper speeds, feeds, and RPM's and safely operate heavy-duty industrial machinery.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETM 1010C and ETD 1320C or equivalent experience

Note:

This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2213C - Machining I

In this course students will continue to develop basic machining skills and better utilize machine tool accessories to assist in different machining operations to include: set up and utilize machine tool accessories, vertical knee milling operation, manual lathe operations, manual lathe threading and drill press operations.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
PMT 1203C and ETD 2218 or equivalent experience

Note:
*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2214C - Machining II and Introduction to CNC
In this course, utilizing the skill sets learned in Introduction to Machining and Machining I the student will bring the machining process together to fabricate a complete assembly. In addition, this course includes an introduction to CNC.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
PMT 2213C

Note:
*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 24

Total Technical Elective Credits Required: 24

Firefighter (Basic) (PSAV)

Admission Program of Study Code 5095 State CIP Code 0743020300
Entry into the Firefighting Certificate Program requires meeting the standards established by the Florida Division of State Fire Marshal, Bureau of Fire Standards and Training. A copy of these requirements is available through the Public Safety Division of NWFSC.
Students who successfully complete this certificate may be eligible to receive credits towards the Emergency Administration & Management (AS) degree (State CIP Code 1743030200).

Core Courses

FFP 0010 - Firefighting I
This course is the first part of the Basic Fire Recruit Academy and prepares students for a career as a volunteer firefighter. Classroom instruction includes a variety of fire related topics which are reinforced and enhanced through practical skills activities. Upon completion, the student is eligible to test for certification as a volunteer firefighter through the Florida State Fire College and may elect to continue training in Firefighter II to pursue state certification as a career firefighter. Permission of the Public Safety Division is required.

Credit Hour(s): 225 Clock Hours When Offered: (Offered as needed) Corequisite(s):
FFP 1140 .

Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

FFP 0020 - Firefighting II
This course is the second part of the Basic Fire Recruit Academy and prepares students for a career as a firefighter. The delivery of instruction includes a variety of training in practical skills necessary for the mastery of the basic competencies required in the program. Upon successful completion of this course, the student is eligible to take the Bureau of Fire Standards and Training written and practical examination. Permission of the Public Safety Division is required.

Credit Hour(s): 225 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
FFP 0010 .

Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 450

Core Courses

FFP 0010 - Firefighting I
This course is the first part of the Basic Fire Recruit Academy and prepares students for a career as a volunteer firefighter. Classroom instruction includes a variety of fire related topics which are reinforced and enhanced through practical skills activities. Upon completion, the student is eligible to test for certification as a volunteer firefighter through the Florida State Fire College and may elect to continue training in Firefighter II to pursue state certification as a career firefighter. Permission of the Public Safety Division is required.

Credit Hour(s): 225 Clock Hours When Offered: (Offered as needed) Corequisite(s):
FFP 1140 .

Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

FFP 0020 - Firefighting II
This course is the second part of the Basic Fire Recruit Academy and prepares students for a career as a firefighter. The delivery of instruction includes a variety of training in practical skills necessary for the mastery of the basic competencies required in the program. Upon successful completion of this course, the student is eligible to take the Bureau of Fire Standards and Training written and practical examination. Permission of the Public Safety Division is required.

Credit Hour(s): 225 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
FFP 0010 .

Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Total Program Hours Required: 450

Graphic Design Production (CCC)

Admission Program of Study Code 6440 State CIP Code 0611080303
Students who successfully complete this certificate may be eligible to receive credits towards the Graphics Technology, Graphic Design Option (AS) Degree (State CIP Code 1611080300).

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 2802C - Digital Photography II

____ ____ Other Approved College Credits (GRA) 2 Credit Hours

An intermediate-level photography course where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will

create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 2802C - Digital Photography II

____ ____ Other Approved College Credits (GRA) 2 Credit Hours

An intermediate-level photography course where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 24

Total Program Credits Required: 24

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 2802C - Digital Photography II

____ ____ Other Approved College Credits (GRA) 2 Credit Hours

An intermediate-level photography course where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 24

Graphic Design Support (CCC)

Admission Program of Study Code 6441 State CIP Code 0611080302

Students who successfully complete this certificate may be eligible to receive credits towards the Graphics Technology, Graphic Design Option (AS) Degree (State CIP Code 1611080300).

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

____ ____ Other Approved College Credits (COP 2840 , GRA, PGY) 2 Credit Hours

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 15

Total Program Credits Required: 15

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting

techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

____ ____ Other Approved College Credits (COP 2840 , GRA, PGY) 2 Credit Hours

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 15

Graphics Technology, Graphic Design Option (AS)

Admission Program Objective Code 2440A State CIP Code 1611080300 The Graphics Technology (Graphic Design Technology) A.S. degree is intended for students interested in careers in Graphic Design and Commercial Art where creativity and visual communication are core competencies. Students are encouraged, but not required, to contact Graphic Arts faculty at 729-6019 for detailed advising to plan a program of study before enrolling in courses.

Students who successfully complete selected courses from this program of study may be eligible to receive the Graphic Design Production (CCC) (State CIP Code 0650040204), and/or Graphic Design Support (CCC) (State CIP Code 0650040202).

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing

program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 1152C - Illustration II

An advanced graphic design course building upon the skills covered in Illustration I; the course includes increased challenges relating to conceptual skills and multi-software integration relating to typical print-based design problems. Access to an appropriate high quality digital camera is required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2191C - Graphic Design II

An advanced Graphic Design course covering the aesthetics and challenges associated with producing complex multi-page printed communications. Access to an appropriate high quality digital camera required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C , GRA 2190C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 24

Total Core Credits Required: 24

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2142C - Web Design I

An introductory course covering the development of websites using an industry standard web development software application.

Students will study the aesthetics and technical considerations involved with information architecture and basic interface design. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2905 - Independent Study – Graphic Design

The student will initiate independent computer related work, utilizing various software and hardware. The course may be taken four times for credit.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C or PGY 1801C

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2950C - Advanced Graphic Projects

An advanced Graphic Design course addressing common Graphic Design problems. Students will explore advanced software application functionality and creative, aesthetic, and portfolio development. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , ART 2603C , GRA 1151C , GRA 2190C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 1220C - Commercial Photography I

A beginning course that introduces students to the procedures and aesthetics of developing photographic illustrations for industrial and advertising use. Students will gain experience using a high quality digital studio camera, electronic lighting, and digital applications of their work. It is recommended that students take PGY 1801C prior to or at the same time as this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

PGY 2221C - Commercial Photography II

As advanced a course that allows the student to expand their skill set in producing photographic illustrations for industrial and advertising use. Students may explore product, portrait, and on-location commercial photographic projects.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1220C and PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 2802C - Digital Photography II

An intermediate-level photography course where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 2804C - Digital Photography III

____ ____ Other Approved College Credits (COP 2840 , GRA, PGY) _

An advanced-level photography courses where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 2802C .

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 22

Total Technical Elective Credits Required: 22

Total Program Credits Required: 64

Total Program Credits Required: 64

Core Courses

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 1152C - Illustration II

An advanced graphic design course building upon the skills covered in Illustration I; the course includes increased challenges relating to conceptual skills and multi-software integration relating to typical print-based design problems. Access to an appropriate high quality digital camera is required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2191C - Graphic Design II

An advanced Graphic Design course covering the aesthetics and challenges associated with producing complex multi-page printed communications. Access to an appropriate high quality digital camera required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C , GRA 2190C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 24

Total Core Credits Required: 24

Technical Elective Courses

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2142C - Web Design I

An introductory course covering the development of websites using an industry standard web development software application. Students will study the aesthetics and technical considerations involved with information architecture and basic interface design. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2905 - Independent Study – Graphic Design

The student will initiate independent computer related work, utilizing various software and hardware. The course may be taken four times for credit.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C or PGY 1801C

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2950C - Advanced Graphic Projects

An advanced Graphic Design course addressing common Graphic Design problems. Students will explore advanced software application functionality and creative, aesthetic, and portfolio development. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , ART 2603C , GRA 1151C , GRA 2190C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 1220C - Commercial Photography I

A beginning course that introduces students to the procedures and aesthetics of developing photographic illustrations for industrial and advertising use. Students will gain experience using a high quality digital studio camera, electronic lighting, and digital applications of their work. It is recommended that students take PGY 1801C prior to or at the same time as this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

PGY 2221C - Commercial Photography II

As advanced a course that allows the student to expand their skill set in producing photographic illustrations for industrial and advertising use. Students may explore product, portrait, and on-location commercial photographic projects.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1220C and PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 2802C - Digital Photography II

An intermediate-level photography course where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 2804C - Digital Photography III

____ ____ Other Approved College Credits (COP 2840 , GRA, PGY) _

An advanced-level photography courses where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 2802C .

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 22

Total Technical Elective Credits Required: 22

Graphics Technology, Visual Artist Option (AS)

Admission Program Objective Code 2440C State CIP Code 1611080300 The Graphics Technology (Graphic Design Technology) A.S. degree is intended for students interested in careers in Graphic Design and Commercial Art where creativity and visual communication are core competencies. Students are encouraged but not required to contact Graphic Arts faculty for detailed advising before enrolling in courses to plan a program of study at 729-6019.

Core Courses

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic

qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2402 - Art History: Modern Art

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ART 1201C - Two-Dimensional Design

An introductory course, both theoretical and applied, dealing with the principles of organization and the elements of design in a two-dimensional format. This is a foundation course for all of the graphic arts: painting, printmaking, and the two-dimensional crafts. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1300C - Drawing I

Basic drawing course covering different drawing media, line, form, shape, value and spatial relationships. Drawing problems involving a variety of subject matter will be explored. Emphasis is on value, drawing techniques, spatial relationships between shapes and composition. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2500C - Painting I

Course will include design elements, composition and spatial relationships. Emphasis is on color theory, color mixing, and execution thereof within a variety of subject matter. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 25

Total Core Credits Required: 25

Technical Elective Courses

ART 1203C - Three-Dimensional Design

An introductory course, both theoretical and applied, dealing with principles of organization and the elements of design in a 3-dimensional format. Various materials, tools, and surfaces are used to explore 3-D form. This is a foundation course. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1301C - Drawing II

Continued study of drawing techniques explored in Drawing I. Provides experience with more complex drawing problems. Emphasis is on self-expression, value, color theory, and composition. A variety of subject matter and drawing media will be explored.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 1300C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2501C - Painting II

This course is a continuation of Painting I ART 2500C with emphasis on further exploration of student’s personal style and original techniques. Further experimentation in abstraction and emotional aspects of form and color are explored and expressed.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 2500C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2540C - Water Color I

An introduction to water media techniques applied to various subject matter through demonstrations and various lab experiences. Open to all students. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2541C - Water Color II

Allows continued experience in more complex water color technique and subject matter. Emphasis is on composition and individual expression.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 2540C . Audit enrollment In studio art classes is permitted on a space-available basis only.

ART 2701C - Sculpture I

An introductory course in the technical and aesthetic consideration of sculptural forms. Includes a wide range of materials and expressions, representing past and present sculptural methods. Audit enrollment in studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

ART 2703C - Sculpture II

Allows continued experience in more complex three-dimensional techniques; emphasis on individual projects and conceptual

approach.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ART 2701C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2955 - Portfolio Development

____ ____ Other Approved College Credits _

Development of a working portfolio through studio project aimed at fulfilling the general requirements the average company, university, art school or advertising agency looks for in a portfolio presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ART 1201C , ART 1203C , ART 1300C , ART 1301C .

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Program Credits Required: 64

Total Program Credits Required: 64

Total Program Credits Required: 64

Total Program Credits Required: 64

Core Courses

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2402 - Art History: Modern Art

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ART 1201C - Two-Dimensional Design

An introductory course, both theoretical and applied, dealing with the principles of organization and the elements of design in a two-dimensional format. This is a foundation course for all of the graphic arts: painting, printmaking, and the two-dimensional crafts. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1300C - Drawing I

Basic drawing course covering different drawing media, line, form, shape, value and spatial relationships. Drawing problems involving a variety of subject matter will be explored. Emphasis is on value, drawing techniques, spatial relationships between shapes and composition. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2500C - Painting I

Course will include design elements, composition and spatial relationships. Emphasis is on color theory, color mixing, and execution thereof within a variety of subject matter. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 25

Total Core Credits Required: 25

Core Courses

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

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ARH 2402 - Art History: Modern Art

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

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ART 1201C - Two-Dimensional Design

An introductory course, both theoretical and applied, dealing with the principles of organization and the elements of design in a two-dimensional format. This is a foundation course for all of the graphic arts: painting, printmaking, and the two-dimensional crafts. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1300C - Drawing I

Basic drawing course covering different drawing media, line, form, shape, value and spatial relationships. Drawing problems involving a variety of subject matter will be explored. Emphasis is on value, drawing techniques, spatial relationships between shapes and composition. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2500C - Painting I

Course will include design elements, composition and spatial relationships. Emphasis is on color theory, color mixing, and execution thereof within a variety of subject matter. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

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A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 25

Total Core Credits Required: 25

Technical Elective Courses

ART 1203C - Three-Dimensional Design

An introductory course, both theoretical and applied, dealing with principles of organization and the elements of design in a 3-dimensional format. Various materials, tools, and surfaces are used to explore 3-D form. This is a foundation course. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1301C - Drawing II

Continued study of drawing techniques explored in Drawing I. Provides experience with more complex drawing problems. Emphasis is on self-expression, value, color theory, and composition. A variety of subject matter and drawing media will be explored.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 1300C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2501C - Painting II

This course is a continuation of Painting I ART 2500C with emphasis on further exploration of student’s personal style and original techniques. Further experimentation in abstraction and emotional aspects of form and color are explored and expressed.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 2500C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2540C - Water Color I

An introduction to water media techniques applied to various subject matter through demonstrations and various lab experiences. Open to all students. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2541C - Water Color II

Allows continued experience in more complex water color technique and subject matter. Emphasis is on composition and individual expression.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 2540C . Audit enrollment In studio art classes is permitted on a space-available basis only.

ART 2701C - Sculpture I

An introductory course in the technical and aesthetic consideration of sculptural forms. Includes a wide range of materials and expressions, representing past and present sculptural methods. Audit enrollment in studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

ART 2703C - Sculpture II

Allows continued experience in more complex three-dimensional techniques; emphasis on individual projects and conceptual approach.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ART 2701C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2955 - Portfolio Development

____ ____ Other Approved College Credits _

Development of a working portfolio through studio project aimed at fulfilling the general requirements the average company, university, art school or advertising agency looks for in a portfolio presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ART 1201C , ART 1203C , ART 1300C , ART 1301C .

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Health Services Management (AS)

Admission Program Objective Code 2055 State CIP Code 1351070100

General Education

____ ____ Communication Skills 3 Credit Hours
____ ____ Humanities 3 Credit Hours
____ ____ Mathematics 3 Credit Hours

BSC 2020C - Human Structure and Function *

____ ____ Social Science 3 Credit Hours
____ ____ General Education Electives 2 Credit Hours

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 18

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Total General Education Credits Required: 18

Core Courses

CGS 1030 - Computer Basics or

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

HSA 1100 - Introduction to Health Care

Introduction to the healthcare delivery system and health related occupations. Also safety, security, and infection control procedures will be discussed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer)

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1531 - Medical Terminology **

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior

business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

SPC 2300 - Interpersonal Communication or
This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Core Credits Required: 23

Note(s):

Technical Elective Courses

GEB 1011 - Introduction to Business
Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 2430 - Business Ethics
This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HIM 1000 - Health Information and Delivery Systems
Orientation to medical records history and professional associations. Confidentiality, filing, retrieving, indexing, numbering, storage and content of the medical record is also discussed. The course includes job search skills and professional job performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAN 2021 - Management
Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAR 2011 - Introduction to Marketing
An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1346 - Supervision II
____ ____ Other Approved College Credits (including BSC, MCB, CHM, MAC 1105 , STA 2023 , SYG 2000 , OST 1355 , DEP 2004 , HUN 2201 , HIM) _

The course presents a continuing study of the functions of a personnel manager, philosophy of general management, employee socioeconomic climate and other information. Included are orientation, training, labor unions, safety, health and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 21

Total Program Credits Required: 62

Note(s):

General Education

____ ____ Communication Skills 3 Credit Hours

____ ____ Humanities 3 Credit Hours

____ ____ Mathematics 3 Credit Hours

BSC 2020C - Human Structure and Function *

____ ____ Social Science 3 Credit Hours

____ ____ General Education Electives 2 Credit Hours

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 18

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Total General Education Credits Required: 18

Core Courses

CGS 1030 - Computer Basics or

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal,

business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

HSA 1100 - Introduction to Health Care

Introduction to the healthcare delivery system and health related occupations. Also safety, security, and infection control procedures will be discussed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer)

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1531 - Medical Terminology **

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

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OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

SPC 2300 - Interpersonal Communication or

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation,

role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

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Total Core Credits Required: 23

Total Program Credits Required: 62

Note(s):

Core Courses

CGS 1030 - Computer Basics or

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

HSA 1100 - Introduction to Health Care

Introduction to the healthcare delivery system and health related occupations. Also safety, security, and infection control procedures will be discussed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer)

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1531 - Medical Terminology **

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1161 - Customer Service

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focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

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MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

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Total Core Credits Required: 23

Note(s):

General Education

____ ____ Communication Skills 3 Credit Hours
____ ____ Humanities 3 Credit Hours
____ ____ Mathematics 3 Credit Hours

BSC 2020C - Human Structure and Function *

____ ____ Social Science 3 Credit Hours
____ ____ General Education Electives 2 Credit Hours

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 18

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Note(s):

Total Program Credits Required: 62

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Total Program Credits Required: 62

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BSC 2020C - Human Structure and Function *

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Total General Education Credits Required: 18

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

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HSA 1100 - Introduction to Health Care

Introduction to the healthcare delivery system and health related occupations. Also safety, security, and infection control

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

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The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

SPC 2300 - Interpersonal Communication or

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Core Credits Required: 23

General Education

____ ____ Communication Skills 3 Credit Hours

____ ____ Humanities 3 Credit Hours
____ ____ Mathematics 3 Credit Hours

BSC 2020C - Human Structure and Function *

____ ____ Social Science 3 Credit Hours
____ ____ General Education Electives 2 Credit Hours

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total Program Credits Required: 62

General Education

____ ____ Communication Skills 3 Credit Hours
____ ____ Humanities 3 Credit Hours
____ ____ Mathematics 3 Credit Hours

BSC 2020C - Human Structure and Function *

____ ____ Social Science 3 Credit Hours
____ ____ General Education Electives 2 Credit Hours

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 18

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Total General Education Credits Required: 18

Note(s):

Core Courses

CGS 1030 - Computer Basics or

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

HSA 1100 - Introduction to Health Care

Introduction to the healthcare delivery system and health related occupations. Also safety, security, and infection control procedures will be discussed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer)

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1531 - Medical Terminology **

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line

individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

SPC 2300 - Interpersonal Communication or

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Core Credits Required: 23

Note(s):

General Education

____ ____ Communication Skills 3 Credit Hours

____ ____ Humanities 3 Credit Hours

____ ____ Mathematics 3 Credit Hours

BSC 2020C - Human Structure and Function *

____ ____ Social Science 3 Credit Hours

____ ____ General Education Electives 2 Credit Hours

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 18

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Total General Education Credits Required: 18

Core Courses

CGS 1030 - Computer Basics or

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

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Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer)

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Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1345 - Supervision I
The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications
Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

SPC 2300 - Interpersonal Communication or
This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Core Credits Required: 23

Total Program Credits Required: 62

Total Program Credits Required: 62

Note(s):

Homeland Security Emergency Manager (CCC)

Admission Program of Study Code 6094 State CIP Code 0743030202
Students who successfully complete this certificate may be eligible to receive credits towards the Emergency Administration & Management (AS) degree (State CIP Code 1743030200).

Core Courses

DSC 1002 - Domestic and International Terrorism
This course is designed to assist students in recognizing and understanding the elements and objectives of terrorism and 4th Generation Warfare and how they affect public safety planning and response operations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1004 - Introduction to NRF and NIMS

Designed to inform emergency responders and planners of the key elements in the National Response Framework (NRF) and the National Incident Management System (NIMS) and their relationship to planning and response operations. The curriculum includes classroom exercises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1222 - Psychological Management of Disaster Victims

This course introduces students to a general overview of terrorism and the potential psychological effect of terrorist events on victims.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1552 - Critical Infrastructure Protection

This course introduces participants to the Critical Infrastructure Protection (CIP) process to secure the effective protection of the people, physical entities, and cyber systems that are critical. The CIP course will guide leaders in the systematic protection of critical infrastructures. More basically, the course will introduce decision sequence that assists leaders and future leaders in ultimately determining exactly what really needs protection as well as when. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1562 - Homeland Security Threat Strategy

This course addresses problems of terrorism from a criminal justice perspective. It is designed to provide students with an understanding of the major issues associated with responding to terrorism in a democratic society. The course focuses on the threat of terrorism to the United States and will review specific strategies to deter terrorist threats to the U.S. The course will assess the relative effectiveness of anti-terrorist activities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1631 - Planning Considerations for Terror Prevention

This course introduces participants to various aspects of planning for potential terrorist activity. The student will be introduced to basic principles of emergency management, communications, security threats, and the effects these operations may have on personnel. The student will learn techniques for evaluating their own jurisdiction’s vulnerability against terrorist attacks. Students will gain knowledge of the roles and responsibilities of local agencies during terrorism responses. The course introduces participants to various aspects of emergency management of terrorist activity.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1751 - Homeland Security Policy and Law

____ ____ College Credit Electives (CCJ1, CJT1, CJT2, CJD1, CJD2, CJL, DSC, ETI, FFP1, FFP2, GIS) 3 Credit Hours

This course introduces participants to the major debates about balancing democratic freedoms with security from the Patriot Act to Supreme Court decisions on detention powers. The course provides insight into legal strategies necessary to confront ongoing national security threats. The course examines laws designed to preserve both our security and our democratic way of life.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Program Credits Required: 24

Core Courses

DSC 1002 - Domestic and International Terrorism

This course is designed to assist students in recognizing and understanding the elements and objectives of terrorism and 4th

Generation Warfare and how they affect public safety planning and response operations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1004 - Introduction to NRF and NIMS

Designed to inform emergency responders and planners of the key elements in the National Response Framework (NRF) and the National Incident Management System (NIMS) and their relationship to planning and response operations. The curriculum includes classroom exercises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1222 - Psychological Management of Disaster Victims

This course introduces students to a general overview of terrorism and the potential psychological effect of terrorist events on victims.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1552 - Critical Infrastructure Protection

This course introduces participants to the Critical Infrastructure Protection (CIP) process to secure the effective protection of the people, physical entities, and cyber systems that are critical. The CIP course will guide leaders in the systematic protection of critical infrastructures. More basically, the course will introduce decision sequence that assists leaders and future leaders in ultimately determining exactly what really needs protection as well as when. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1562 - Homeland Security Threat Strategy

This course addresses problems of terrorism from a criminal justice perspective. It is designed to provide students with an understanding of the major issues associated with responding to terrorism in a democratic society. The course focuses on the threat of terrorism to the United States and will review specific strategies to deter terrorist threats to the U.S. The course will assess the relative effectiveness of anti-terrorist activities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

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DSC 1631 - Planning Considerations for Terror Prevention

This course introduces participants to various aspects of planning for potential terrorist activity. The student will be introduced to basic principles of emergency management, communications, security threats, and the effects these operations may have on personnel. The student will learn techniques for evaluating their own jurisdiction’s vulnerability against terrorist attacks. Students will gain knowledge of the roles and responsibilities of local agencies during terrorism responses. The course introduces participants to various aspects of emergency management of terrorist activity.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1751 - Homeland Security Policy and Law

____ ____ College Credit Electives (CCJ1, CJT1, CJT2, CJD1, CJD2, CJL, DSC, ETI, FFP1, FFP2, GIS) 3 Credit Hours

This course introduces participants to the major debates about balancing democratic freedoms with security from the Patriot Act to Supreme Court decisions on detention powers. The course provides insight into legal strategies necessary to confront ongoing national security threats. The course examines laws designed to preserve both our security and our democratic way of life.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Program Credits Required: 24

Industrial Management Technology (AS)

Admission Program Objective Code 2450 State CIP Code 1652020501

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

GEB 1214 - Business and Supervision Terminology

This course is designed for students to achieve mastery of the special vocabulary, jargon, and concept terminology associated with general business and supervision in the modern workplace. Students will apply the terms in common workplace scenarios and hypothetical situations, as well as in standard written documents and assignments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed)

With the approval of an advisor, select 6 credits from the following:

GEB 1940 - Internship - Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 8

With the approval of an advisor, select 6 credits from the following:

GEB 1940 - Internship - Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 8

Technical Elective Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

____ ____ Approved computer-related course 3 Credit Hours

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

ETI 2117 - Introduction to Total Quality Management

Total Quality Management (TQM) is the proven management system used by successful world-class private and public organizations of all kinds worldwide. Developed and propagated during the latter part of the 20th century and further evolving in the early 21st century, TQM continues to make organizations more effective and competitive in the global economy. This course provides students with a comprehensive understanding of the contemporary management philosophy, concepts, tools, and techniques of Total Quality and related quality management initiatives including ISO 9000, Six Sigma, and Lean. Individuals employed by organizations contemplating, or already using, TQM, ISO 9000, Six Sigma, or Lean should consider this course as a way to become a more effective employee regardless of rank.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2190 - Implementing Total Quality

This course prepares individuals to guide a successful implementation of Total Quality Management in any kind of organization, or to be an effective participant (employee of any rank) in a Total Quality implementation. The course features a 20 step process for implementation, each fully detailed, developed, and sequenced, to apply to any organization. Emphasis is placed on the critical role of executive level leaders, and variation among organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Prerequisite(s):

ETI 2117 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 1940 - Internship - Business (can be completed three times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GIS 1040C - Introduction to Geographic Information Systems

This course will provide students with an introduction to Geographic Information Systems (GIS). Lectures will include: what is GIS, GIS applications, fundamentals such as map projections, vector versus raster data models, creating and maintaining geographic databases, spatial analysis and modeling, cartography and map production. Lab sessions will include the hands on use of the ArcGIS software. Students will receive a 180-day version of the software with their textbook that they can use at home to complete assignments.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

moderate familiarity with the Windows operating system, preferably XP.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical

managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2300 - Personnel Management

An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1016 - ISO 9000 - Industrial Management

ISO 9000 is the international standard for Quality Management Systems that promote efficiency, competitiveness, consistency, and international recognition in virtually all types of organizations. This course prepares individuals to guide an organization through the steps necessary for ISO 9000 registration and subsequent audits and triennial re-registration, or to be effective participants (employees of any rank) in an organization already registered to ISO 9000.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

SPC 2300 - Interpersonal Communication

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

STA 2023 - Statistics

____ ____ - Other Approved College Credits

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Total Technical Elective Credits Required: 34

Total Technical Elective Credits Required: 34

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total Program Credits Required: 60

Core Courses

GEB 1214 - Business and Supervision Terminology

This course is designed for students to achieve mastery of the special vocabulary, jargon, and concept terminology associated with general business and supervision in the modern workplace. Students will apply the terms in common workplace scenarios and hypothetical situations, as well as in standard written documents and assignments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed)

With the approval of an advisor, select 6 credits from the following:

GEB 1940 - Internship - Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
permission of the instructor

Note:
This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 8

With the approval of an advisor, select 6 credits from the following:

GEB 1940 - Internship - Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 8

Technical Elective Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

____ ____ Approved computer-related course 3 Credit Hours

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

ETI 2117 - Introduction to Total Quality Management

Total Quality Management (TQM) is the proven management system used by successful world-class private and public organizations of all kinds worldwide. Developed and propagated during the latter part of the 20th century and further evolving in the early 21st century, TQM continues to make organizations more effective and competitive in the global economy. This course provides students with a comprehensive understanding of the contemporary management philosophy, concepts, tools, and techniques of Total Quality and related quality management initiatives including ISO 9000, Six Sigma, and Lean. Individuals employed by organizations contemplating, or already using, TQM, ISO 9000, Six Sigma, or Lean should consider this course as a way to become a more effective employee regardless of rank.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2190 - Implementing Total Quality

This course prepares individuals to guide a successful implementation of Total Quality Management in any kind of organization, or to be an effective participant (employee of any rank) in a Total Quality implementation. The course features a 20 step process for implementation, each fully detailed, developed, and sequenced, to apply to any organization. Emphasis is placed on the critical role of executive level leaders, and variation among organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Prerequisite(s):

ETI 2117 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 1940 - Internship - Business (can be completed three times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies

associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GIS 1040C - Introduction to Geographic Information Systems

This course will provide students with an introduction to Geographic Information Systems (GIS). Lectures will include: what is GIS, GIS applications, fundamentals such as map projections, vector versus raster data models, creating and maintaining geographic databases, spatial analysis and modeling, cartography and map production. Lab sessions will include the hands on use of the ArcGIS software. Students will receive a 180-day version of the software with their textbook that they can use at home to complete assignments.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

moderate familiarity with the Windows operating system, preferably XP.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2300 - Personnel Management

An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1016 - ISO 9000 - Industrial Management

ISO 9000 is the international standard for Quality Management Systems that promote efficiency, competitiveness, consistency, and international recognition in virtually all types of organizations. This course prepares individuals to guide an organization through the steps necessary for ISO 9000 registration and subsequent audits and triennial re-registration, or to be effective participants (employees of any rank) in an organization already registered to ISO 9000.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

SPC 2300 - Interpersonal Communication
This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

STA 2023 - Statistics
____ ____ - Other Approved College Credits
This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Total Technical Elective Credits Required: 34

Total Technical Elective Credits Required: 34

Total Program Credits Required: 60

Infant/Toddler Specialization (CCC)

Admission Program of Study Code 6022 State CIP Code 0419070907
Students who successfully complete this certificate may be eligible to receive credits towards the Early Childhood Education (AS) degree (State CIP Code 1413121003).

Core Courses

DEP 2100 - Child Growth and Development
This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education
Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1201 - Infants and Toddlers
This course provides the student with information pertinent to the care of infants and toddlers. Special attention is given to selection of developmentally appropriate curriculum. Course work satisfies the Child Development Associate competency standards for Infant/Toddler.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:

DEP 2100 , and EEC 1309 or EEC 1201 .

Total Core Credits Required: 12

Total Core Credits Required: 12

Total Program Credits Required: 12

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1201 - Infants and Toddlers

This course provides the student with information pertinent to the care of infants and toddlers. Special attention is given to selection of developmentally appropriate curriculum. Course work satisfies the Child Development Associate competency standards for Infant/Toddler.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:

DEP 2100 , and EEC 1309 or EEC 1201 .

Total Core Credits Required: 12

Total Core Credits Required: 12

Total Program Credits Required: 12

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1201 - Infants and Toddlers

This course provides the student with information pertinent to the care of infants and toddlers. Special attention is given to selection of developmentally appropriate curriculum. Course work satisfies the Child Development Associate competency standards for Infant/Toddler.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:
DEP 2100 , and EEC 1309 or EEC 1201 .

Total Core Credits Required: 12

Total Core Credits Required: 12

Information Technology Administration (CCC)

Admission Program of Study Code 6166 State CIP Code 0511010307
Students who successfully complete this certificate may be eligible to receive credits towards the Internet Services Technology (AS) degree (State CIP Code1511080102).

Core Courses

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information

technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 12

Total Core Credits Required: 12

Technical Elective Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2440 - Introduction to Oracle

COP 2XXX - Any 2000-level programming course 3 Credit Hours

An introduction to Oracle and the design and creation of relational databases (using Oracle). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, Functions, Packages and Triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Total Program Credits Required: 18

Core Courses

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 12

Total Core Credits Required: 12

Technical Elective Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World

Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
demonstrated competencies in Widows and keyboarding skills.

Note:
▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 and CGS 1570 recommended.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2440 - Introduction to Oracle

COP 2XXX - Any 2000-level programming course 3 Credit Hours

An introduction to Oracle and the design and creation of relational databases (using Oracle). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, Functions, Packages and Triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 18

Total Technical Elective Credits Required: 18

Total Program Credits Required: 18

Internet Services Technology (AS)

Admission Program Objective Code 2166 State CIP Code 1511080102

Students who successfully complete selected courses from this program of study may be eligible to receive the Information Technology Administration (CCC) (State CIP Code 0511010307) and/or Web Development Specialist (CCC) (State CIP Code 1511080102) certificates.

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2820 .

Note:

▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 24

Total Core Credits Required: 24

Total Core Credits Required: 24

Total Core Credits Required: 24

Technical Elective Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her

degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2030 - Programming In Python

An Introduction to Python programming language using microcomputers. Topics include Python basics, use of Python control and data structures, use of Python function, Python 110, and implementation of basic programming tasks.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2654

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2660 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 and COP 2840 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ - Other Approved College Credits

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Program Credits Required: 63

Core Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students’ understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000

Note:
▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2800 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 2820 .

Note:
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 24

Total Core Credits Required: 24

Total Core Credits Required: 24

Total Core Credits Required: 24

Technical Elective Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-

Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2030 - Programming In Python

An Introduction to Python programming language using microcomputers. Topics include Python basics, use of Python control and data structures, use of Python function, Python 110, and implementation of basic programming tasks.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2654

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2660 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 and COP 2840 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database

management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ - Other Approved College Credits

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Program Credits Required: 63

Technical Elective Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2030 - Programming In Python

An Introduction to Python programming language using microcomputers. Topics include Python basics, use of Python control and data structures, use of Python function, Python 110, and implementation of basic programming tasks.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2224 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 , COP 2654

Note:
▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 , COP 2660 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 and COP 2840 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ - Other Approved College Credits

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Technical Elective Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-

Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2030 - Programming In Python

An Introduction to Python programming language using microcomputers. Topics include Python basics, use of Python control and data structures, use of Python function, Python 110, and implementation of basic programming tasks.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2654

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2660 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 and COP 2840 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

MAD 2104 - Introduction to Discrete Mathematics

____ ____ - Other Approved College Credits

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
a grade of “C” or better in MAC 1140 or a course in programming.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

IP Communications (CCC)

Admission Program of Study Code 6148 State CIP Code 0511100120
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Core Courses

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
CET 1600C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational

and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1675C - Introduction to IP Telephony

This course explains how companies are using IP Telephony equipment and software to efficiently upgrade existing telephone systems. In addition, the course will give the student a fundamental understanding of the architecture of voice communication and how signaling, call quality and public switched telephone networks operate in a LAN/WAN networking environment. The use of IP Telephony products will be discussed and how software allows companies to cost-effectively upgrade and eventually replace existing (legacy) telephone systems with more cost-effective and easy-to-use telephone equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2682C - Cisco Voice over IP (VoIP)

Instruction includes, but is not limited to, Voice over Internet Protocol (VoIP) theory, Voice Gateway configuration in a IP Telephony (IPT) solution, IP Phone configuration, design of VoIP networks and troubleshooting IPT networks. Students will design and configure various VoIP networks using case studies and laboratory equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 2620C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 21

Technical Elective Courses

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2854C - Fundamentals of Wireless LANs

Develop, implement and troubleshoot wireless networks. This hands-on, skill-based course focuses on the design, planning and operation of wireless networks, with an overview of technologies, security, and design best practices. This course helps prepare the student for the CISCO Wireless Certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 11

Total Program Credits Required: 32

IT Security (AS)

Admission Program Objective Code 2165 State CIP Code 1511100306
Students who successfully complete selected courses from this program of study may be eligible to receive the Database and E-Commerce Security (CCC) certificate (State CIP Code 0511100311).

General Education

Total General Education Credits Required: 18

Core Courses

CAP 2134C - Database Security

This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1660 and CGS 2541 .

Note:
▲Technology-Across-the-Curriculum Course.

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
CET 1600C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

recommended knowledge level of networking.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 33

Core Courses

CAP 2134C - Database Security

This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 and CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-

Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

recommended knowledge level of networking.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation

for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 33

Technical Elective Courses

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2880C - Digital Forensics Fundamentals

This course offers a solid foundation to computer forensics investigations: preparing students to acquire and analyze digital evidence. the course covers tools and techniques and explains topics such as file structure, data recovery, e-mail and network investigations, and expert witness testimony. In addition, the student will gain practical knowledge in conducting digital investigations and preserving digital evidence that maybe used in court or corporate inquiries.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1660

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2881C - Digital Forensics II

Digital Forensics II builds upon the foundational knowledge learned in digital forensics fundamentals. Students will utilize industry standard tools to conduct examinations of various digital media and document their findings. Devices to be studied include computers (server, desktop, laptop), mobile devices (tablets, cell phones, smart phones, mp3 players, gps), and devices such as dvr's and routers. Emphasis will be placed upon real-world digital forensics scenarios and the investigative thought process. At the conclusion of the class, students will be prepared to take the accessdata certified examiner (ace) examination.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 2880C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1854C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2940 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
active enrollment in a technical degree program and permission of the instructor

Note:
This course may be taken up to four times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2941 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2942 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2314C - Network Defense and Countermeasures

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure and implement secure networks. Security topics covered in this course include firewalls, Intrusion Detection Systems (IDS), Virtual Private Networks (VPN) and policy creation using the Windows Operating System (OS), Transmission Control Protocol/Internet Protocol (TCP/IP) packet and signature analysis. The student will get hands-on instruction installing the network defense mechanisms and countermeasure applications. Software will be used for collecting, monitoring and auditing various activities; students will analyze threats and intrusions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1610C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETG 1941 - Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAD 2104 - Introduction to Discrete Mathematics

COP 2XXX - Any 2000 level COP prefix course 3 Credit Hours

____ ____ Other Approved College Credits

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 12

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Total Technical Elective Credits Required: 12

Technical Elective Courses

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2880C - Digital Forensics Fundamentals

This course offers a solid foundation to computer forensics investigations: preparing students to acquire and analyze digital evidence. the course covers tools and techniques and explains topics such as file structure, data recovery, e-mail and network investigations, and expert witness testimony. In addition, the student will gain practical knowledge in conducting digital investigations and preserving digital evidence that maybe used in court or corporate inquiries.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2881C - Digital Forensics II

Digital Forensics II builds upon the foundational knowledge learned in digital forensics fundamentals. Students will utilize industry standard tools to conduct examinations of various digital media and document their findings. Devices to be studied include computers (server, desktop, laptop), mobile devices (tablets, cell phones, smart phones, mp3 players, gps), and devices such as dvr's and routers. Emphasis will be placed upon real-world digital forensics scenarios and the investigative thought process. At the conclusion of the class, students will be prepared to take the accessdata certified examiner (ace) examination.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 2880C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1854C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2940 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2941 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2942 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 and CGS 1570 recommended.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2314C - Network Defense and Countermeasures

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure and implement secure networks. Security topics covered in this course include firewalls, Intrusion Detection Systems (IDS), Virtual Private Networks (VPN) and policy creation using the Windows Operating System (OS), Transmission Control Protocol/Internet Protocol (TCP/IP) packet and signature analysis. The student will get hands-on instruction installing the network defense mechanisms and countermeasure applications. Software will be used for collecting, monitoring and auditing various activities; students will analyze threats and intrusions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1610C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETG 1941 - Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAD 2104 - Introduction to Discrete Mathematics

COP 2XXX - Any 2000 level COP prefix course 3 Credit Hours

____ ____ Other Approved College Credits

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 12

Total Technical Elective Credits Required: 12

Total Technical Elective Credits Required: 12

Total Technical Elective Credits Required: 12

Total Technical Elective Credits Required: 12

Total Program Credits Required: 63

Technical Elective Courses

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2880C - Digital Forensics Fundamentals

This course offers a solid foundation to computer forensics investigations: preparing students to acquire and analyze digital evidence. the course covers tools and techniques and explains topics such as file structure, data recovery, e-mail and network investigations, and expert witness testimony. In addition, the student will gain practical knowledge in conducting digital investigations and preserving digital evidence that maybe used in court or corporate inquiries.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2881C - Digital Forensics II

Digital Forensics II builds upon the foundational knowledge learned in digital forensics fundamentals. Students will utilize industry standard tools to conduct examinations of various digital media and document their findings. Devices to be studied include computers (server, desktop, laptop), mobile devices (tablets, cell phones, smart phones, mp3 players, gps), and devices such as dvr's and routers. Emphasis will be placed upon real-world digital forensics scenarios and the investigative thought process. At the conclusion of the class, students will be prepared to take the accessdata certified examiner (ace) examination.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 2880C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are

covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1854C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2940 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2941 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2942 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-

Curriculum Course.

CTS 2314C - Network Defense and Countermeasures

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure and implement secure networks. Security topics covered in this course include firewalls, Intrusion Detection Systems (IDS), Virtual Private Networks (VPN) and policy creation using the Windows Operating System (OS), Transmission Control Protocol/Internet Protocol (TCP/IP) packet and signature analysis. The student will get hands-on instruction installing the network defense mechanisms and countermeasure applications. Software will be used for collecting, monitoring and auditing various activities; students will analyze threats and intrusions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1610C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETG 1941 - Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAD 2104 - Introduction to Discrete Mathematics

COP 2XXX - Any 2000 level COP prefix course 3 Credit Hours

____ ____ Other Approved College Credits

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 12

Total Technical Elective Credits Required: 12

Total Technical Elective Credits Required: 12

Total Technical Elective Credits Required: 12

Total Technical Elective Credits Required: 12

Core Courses

CAP 2134C - Database Security

This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 and CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

recommended knowledge level of networking.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 33

Total Program Credits Required: 63

Law Enforcement Officer (Basic) (PSAV)

Admission Program of Study Code 5092 State CIP Code 0743010700
Entry into Criminal Justice Certificate Programs requires meeting the standards as established by the Criminal Justice Standards and Training Commission and the Florida Department of Law Enforcement for employment. A copy of these requirements will be furnished by the Public Safety Division at NWFSC.

Core Courses

CJK 0001 - Introduction to Law Enforcement

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to introduce the student to law enforcement, the process for becoming a certified law enforcement officer, and the requirements of the academy program. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0012 - Legal

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to introduce the student to the criminal justice system, the chain-of-command system in law enforcement, Constitutional Law, Florida Statutes, and the Police Code of Ethics. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 63 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0013 - Interactions in a Diverse Community

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enhance student awareness and understanding of human diversity issues and to teach students skills to enable them to effectively interact with people of diverse backgrounds. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0014 - Interviewing and Report Writing

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to help the student learn vital communication skills including interviewing, note-taking, statement taking, and report writing. It also helps the student to

develop survival skills, stress management skills, and problem solving skills utilizing the SECURE model. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 54 Clock Hours When Offered: (Fall, Spring, Summer) Note:

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CJK 0020 - Law Enforcement CMS Vehicle Operations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply vehicle operations knowledge, principles and techniques to the police driving environment. This course includes classroom instruction and practical application on the driving range. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0031 - CMS First Aid for Criminal Justice Officers

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply first responder knowledge and techniques to medical emergency situations. This course includes classroom instruction and hands-on practical demonstration. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0040 - CMS Firearms

This course is a component of the Law Enforcement/Corrections Florida CMS Basic Recruit Academy. This course is designed to give the student basic skills and knowledge needed to safely operate a firearm, and shoot a handgun, and shotgun and/or rifle with a prescribed degree of accuracy. This course includes classroom instruction and firing range practice/qualification. This course is open only to students admitted to the Law Enforcement Florida CMS or Corrections Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0051 - Defensive Tactics

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare prospective officers to control subjects and defend themselves using appropriate defensive tactics in accordance with Florida State Statue, the United States Constitution, and case law. This course includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college

credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0064 - Fundamentals of Patrol

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to understand Community Oriented Policing and how it is implemented as a problem solving model, and identify the SECURE problem solving model and its application in real life situations; understand officer safety issues, identify and avoid fatal errors, identify and manage stress, maintain mental and physical fitness; respond to a call, approach a suspect, make an arrest, transport a prisoner and process the prisoner at a detention facility; and understand how to direct traffic, how to enforce traffic citations, identify how to respond to alarms and conduct a building search, and search inventory and impound vehicles. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:

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CJK 0077 - Criminal Investigations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to prepare the student to respond appropriately to a person or property crime victim, witness, and suspect; conduct a preliminary investigation on crimes against persons and crimes against property offenses; conduct a follow-up investigation to establish a suspect's identity and/or ascertain facts of the case; and, give testimony in different types of court proceedings. It includes classroom instruction and practical exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 51 Clock Hours When Offered: (Fall, Spring, Summer) Note:

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CJK 0078 - Crime Scene to Courtroom

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to prepare the student to respond to a crime scene, protect and survey a crime scene, process a crime scene, dust for latent prints, and document a crime scene by sketching. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Fall, Spring, Summer) Note:

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CJK 0087 - Traffic Stops

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to the basic rules for conducting safe and effective traffic stops, including ethical consideration, safety considerations, citation and warning procedures, and dealing with abandoned vehicles. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 30 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0084 - DUI Traffic Stops

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to the basic

rules for conducting safe and effective DUI stops, including identifying a driver under the influence of alcohol and drugs, conducting field sobriety tests, and completing a DUI investigation. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:

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CJK 0088 - Traffic Crash Investigations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to traffic crash investigations, laws pertaining to traffic crashes and procedures for responding to a traffic crash. It includes classroom instruction and practical exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096A - Criminal Justice Physical Fitness I

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096B - Criminal Justice Physical Fitness II

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096C - Criminal Justice Physical Fitness III

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0422 - Dart-Firing Stun Gun

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare students in the proper use of the Dart Firing Stun in accordance with the Florida State Statutes, the United States Constitution, and case law. It includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 9 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0065 - Calls for Service

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to respond to calls for service, disturbances, people in distress and court orders. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0092 - Critical Incidents

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to identify the crowd control procedures to safely and effectively disperse or control a large group of people; understand local emergency response plans; respond to a bomb threat, assesses the scene, search and evacuate a building or suspected bomb sight, identify Weapons of Mass Destruction and properly respond to a WMD incident. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 45 Clock Hours When Offered: (Fall, Spring, Summer) Note:

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Total Program Hours Required: 801

Total Program Hours Required: 801

Total Program Hours Required: 801

Core Courses

CJK 0001 - Introduction to Law Enforcement

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to introduce the student to law enforcement, the process for becoming a certified law enforcement officer, and the requirements of the academy program. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Fall, Spring, Summer) Note:
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CJK 0012 - Legal

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to introduce the student to the criminal justice system, the chain-of-command system in law enforcement, Constitutional Law, Florida Statutes, and the Police Code of Ethics. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 63 Clock Hours When Offered: (Fall, Spring, Summer) Note:
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CJK 0013 - Interactions in a Diverse Community

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enhance student awareness and understanding of human diversity issues and to teach students skills to enable them to effectively interact with people of diverse backgrounds. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0014 - Interviewing and Report Writing

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to help the student learn vital communication skills including interviewing, note-taking, statement taking, and report writing. It also helps the student to develop survival skills, stress management skills, and problem solving skills utilizing the SECURE model. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 54 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0020 - Law Enforcement CMS Vehicle Operations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply vehicle operations knowledge, principles and techniques to the police driving environment. This course includes classroom instruction and practical application on the driving range. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0031 - CMS First Aid for Criminal Justice Officers

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply first responder knowledge and techniques to medical emergency situations. This course includes classroom instruction and hands-on practical demonstration. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0040 - CMS Firearms

This course is a component of the Law Enforcement/Corrections Florida CMS Basic Recruit Academy. This course is designed to give the student basic skills and knowledge needed to safely operate a firearm, and shoot a handgun, and shotgun and/or rifle with a prescribed degree of accuracy. This course includes classroom instruction and firing range practice/qualification. This course is open only to students admitted to the Law Enforcement Florida CMS or Corrections Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0051 - Defensive Tactics

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare prospective officers to control subjects and defend themselves using appropriate defensive tactics in accordance with Florida State Statue, the United States Constitution, and case law. This course includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0064 - Fundamentals of Patrol

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to understand Community Oriented Policing and how it is implemented as a problem solving model, and identify the SECURE problem solving model and its application in real life situations; understand officer safety issues, identify and avoid fatal errors, identify and manage stress, maintain mental and physical fitness; respond to a call, approach a suspect, make an arrest, transport a prisoner and process the prisoner at a detention facility; and understand how to direct traffic, how to enforce traffic citations, identify how to respond to alarms and conduct a building search, and search inventory and impound vehicles. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0077 - Criminal Investigations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to prepare the student to respond appropriately to a person or property crime victim, witness, and suspect; conduct a preliminary investigation on crimes against persons and crimes against property offenses; conduct a follow-up investigation to establish a suspect's identity and/or ascertain facts of the case; and, give testimony in different types of court proceedings. It includes classroom instruction and practical exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 51 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0078 - Crime Scene to Courtroom

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to prepare the student to respond to a crime scene, protect and survey a crime scene, process a crime scene, dust for latent prints, and document a crime scene by sketching. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0087 - Traffic Stops

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to the basic rules for conducting safe and effective traffic stops, including ethical consideration, safety considerations, citation and warning procedures, and dealing with abandoned vehicles. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 30 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0084 - DUI Traffic Stops

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to the basic rules for conducting safe and effective DUI stops, including identifying a driver under the influence of alcohol and drugs, conducting field sobriety tests, and completing a DUI investigation. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0088 - Traffic Crash Investigations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to traffic crash investigations, laws pertaining to traffic crashes and procedures for responding to a traffic crash. It includes classroom instruction and practical exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096A - Criminal Justice Physical Fitness I

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed

to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096B - Criminal Justice Physical Fitness II

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096C - Criminal Justice Physical Fitness III

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0422 - Dart-Firing Stun Gun

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare students in the proper use of the Dart Firing Stun in accordance with the Florida State Statutes, the United States Constitution, and case law. It includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 9 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0065 - Calls for Service

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to respond to calls for service, disturbances, people in distress and court orders. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0092 - Critical Incidents

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to identify the crowd control procedures to safely and effectively disperse or control a large group of people; understand local emergency response plans; respond to a bomb threat, assesses the scene, search and evacuate a building or suspected bomb sight, identify Weapons of Mass Destruction and properly respond to a WMD incident. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 45 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Medical Coder/Biller (CCC)

Admission Program of Study Code 6103 State CIP Code 0351070707
Students who successfully complete this college credit certificate may be eligible to receive credits towards the Office Administration (AS) (AS) Degree (State CIP Code 1552020400).

Core Courses

HIM 1000 - Health Information and Delivery Systems

Orientation to medical records history and professional associations. Confidentiality, filing, retrieving, indexing, numbering, storage and content of the medical record is also discussed. The course includes job search skills and professional job performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2272 - Healthcare Reimbursement *

Emphasis on billing regulations for the State of Florida. Course content includes LMRPS, Workers' Compensation laws, Florida Medicare, and claims for automobile accident injuries.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

Knowledge of basic computer & keyboarding skills

Prereq/Corequisites:

HIM 2729

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM1275)

HIM 2724 - ICD Coding Part 1 *

This course provides a foundation using ICD-10-CM/PCS coding conventions, rules, methodology and sequencing, data sets, documentation requirements, and coding resources.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

HSC 1531 , BSC 1080 , HIM 1432

Prereq/Corequisites:

HIM 1000

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIMXXX1)

HIM 1432 - Pathopharmacology

Introduction to the nature, cause, and treatment of disease entities and the body's defense mechanisms. Commonly used drugs will

also be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2729 - ICD Coding Part 2 *

This course focuses on assigning appropriate ICD, DRG, and Level II (HCPCS) codes to a wide range of original source medical documents. This course increases the quality of code selection by applying the decision process in problem solving using well-defined medical record review methods and guidelines. Ethical practices will be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

BSC 1080 , HIM 2724 , HIM 1432 , HSC 1531 , knowledge of basic computer & keyboarding skills.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM2721)

HIM 1012 - Health Care and Legal Compliance

In-depth study of federal, state, local laws governing preparation, and use of the healthcare record in the healthcare delivery system.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2253 - CPT Coding - Part 1 *

Instruction and practice in basic CPT coding conventions, principles of classifying physician services using current procedural terminology (CPT-4), APC, and auditing procedures. Ethical standards of practice will be analyzed.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

HSC 1531 , BSC 1080 , HIM 1432 , knowledge of basic computer & keyboarding skills.

Prereq/Corequisites:

HIM 2724

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM1253)

HIM 2291 - CPT Coding Part 2 *

This is an advanced course in ICD, CPT and HCPCS coding systems. Students will learn guidelines and applications to more complex case studies and health records according to current ethical standards of practice, inpatient and outpatient prospective payment systems, encoding software and RBRVs.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

HSC 1531 , HIM 2724 , BSC 1080 , HIM 1432 , HIM 2253 , knowledge of basic computer & keyboarding skills.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM2254)

HIM 2815C - Professional Practice Experience *

Working in a simulated, online environment, students will endeavor to code and bill using nationally recognized, American Health Information an Management Association (AHIMA) simulation software.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

HIM 2729 , HSC 1531 , BSC 1080 , HIM 1432 , knowledge of basic computer & keyboarding skills

Corequisite(s):

HIM 2291

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2931C - Special Topics in Health Information Technology *

*These courses have required prerequisites and corequisites. Students should refer to the Plan of Study or ask an Academic Advisor for assistance to determine the required sequence of courses.

This course is a review of skills and work processes to support classification and coding to become nationally certified in-field. Effective test-taking strategies for certification exams and employability skills will be discussed.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Summer) Prerequisite(s):

HIM 2291 , HIM 2729 , HSC 1531 , BSC 1080 , HIM 1432 , knowledge of basic computer & keyboarding skills.

Prereq/Corequisites:

HIM 2272

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 28

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Technical Elective Courses

BSC 1080 - Essentials of Anatomy and Physiology

(BSC 1085C with BSC 1086C , or BSC 2020C may be substituted for BSC 1080 .)

This course surveys basic structure and function of the human body with emphasis on terminology and anatomy.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Technical Elective Credits Required: 6

Total Program Credits Required: 34

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Total Technical Elective Credits Required: 6

Total Program Credits Required: 34

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Technical Elective Credits Required: 6

Total Program Credits Required: 34

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Office Management (CCC)

Admission Program of Study Code 6100 State CIP Code 0552020401
Students who successfully complete this certificate may be eligible to receive credits towards the Office Administration (AS) degree (State CIP Code 1552020400).

Core Courses

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

OST 1107 - Word Processing I

Integration of basic keyboarding and word processing – learning the keyboard, creating, editing, saving, and other word processing functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
▲Technology-Across-the-Curriculum Course.

OST 2117 - Word Processing II

Continuation of Typing and Word Processing I – develop keyboarding and document processing using a microcomputer.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
OST 1107 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

OST 2401 - General Office Management

Study of practices and procedures in the modern office. Emphasis on exercising judgment, handling incoming calls and callers, processing mail, word processing systems, editing and composing techniques, travel arrangements, banking procedures, employment applications and resumes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

OST 2117 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 15

Technical Elective Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 1940 - Internship - Business (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 1355 - Records Management

____ ____ Other Approved College Credits 3-9 Credit Hours

Methods and systems of filing used in business offices, filing equipment, and time-and-motion skills. Filing practice sets are used.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 12

Total Program Credits Required: 27

Microcomputer Repair/Installer (CCC)

Admission Program of Study Code 6142 State CIP Code 0647010406

Students who successfully complete this certificate may be eligible to receive credits towards the Computer Engineering Technology (AS) degree (State CIP Code 161520100).

Core Courses

CET 2172C - Microcomputer Servicing

This course introduces the PC system, how it works and how the operating system controls it. Also studied are the components which make up the PC system, how to use multimeters and logic probes to make measurements and troubleshoot the system with the aid of diagnostic software. Students will perform fault analysis of simulated PC defects. In addition, students will learn to disassemble, reassemble and modify the PC hardware components.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 13

Technical Elective Courses

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-

Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

CET ____ Any course with CET prefix 3 Credit Hours

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETG 1941 - Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 2

Total Technical Elective Credits Required: 2

Technical Elective Courses

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation,

configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

CET ____ Any course with CET prefix 3 Credit Hours

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETG 1941 - Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 2

Total Technical Elective Credits Required: 2

Total Program Credits Required: 15

Music Production Technology (AS)

Admission Program Objective Code 2560 State CIP Code 1650091300

Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Audio Technology (Recording Arts) (CCC) (State CIP Code 0650060209).

General Education

Total General Education Credits Required: 18

Technical Elective Courses

MUL 1010 - Music Appreciation

Designed to develop a more intelligent understanding of and appreciation of music. By methodically surveying the main periods of Western Art Music from the Medieval Period through present day, this class will bring about an awareness of music as a vital source in human life, and will aid in developing positive attitudes toward culture and the fine arts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet AA Gordon Rule requirements for general education, a minimum grade of "C" is required. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the- Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

MUT 1121 - Music Theory I - Ear Training and Sight Singing

A study of the fundamentals of basic musicianship, music notation, understanding of simple rhythms, key situations, intervals, ear training, dictation, sight singing, major and minor scales, intervals, triads, chords, polyphonic composition and elementary keyboard work.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 1001 or instructor permission.

Note:

▲Technology-Across-the-Curriculum Course.

MUT 1122 - Music Theory II - Ear Training and Sight Singing

A continuation of MUT 1121 . Basic musicianship, writing and reading of music, ear training, dictation, sight singing will be studied, as well as major and minor scales, intervals, triads, seventh chords, inversions, cadences, periods and progressions in all keys. Two, three and four part chords and polyphonic composition.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 1121 .

Note:

▲Technology-Across-the-Curriculum Course.

MUT 2126 - Music Theory III – Ear Training and Sight Singing

A continuation of MUT 1121 and MUT 1122 . The harmonization and modulation of melodies through the use of nondominant harmony and the study of sequence writing. Incorporates keyboard harmony plus sight reading of chromatic melodies, large intervals, and advanced rhythms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 1122 .

MUT 2127 - Music Theory IV – Ear Training and Sight Singing

____ ____ Other Approved College Credits (MUL, MUM, MUN, MUS, MUT, MVB, MVK, MVP, MVS, MVV, MVW)
____ ____ Other Approved College Credits

The continued study of harmonization of melodies, sequence writing, sight reading, intervals, advanced rhythms and structures.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 2126 .

Total Technical Elective Credits Required: 31

Total Technical Elective Credits Required: 31

Core Courses

MUM 1620 - Audio and Acoustic Fundamentals

Audio and Acoustic Fundamentals explores the basics of audio systems and equipment and the acoustical environment in which they are used. Emphasis is placed on equipment terminology, function and acoustical listening. The two basic fundamentals are summed together to begin laying the basic foundation required to operate audio and recording equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

MUM 2300 - Introduction to the Music Industry

This course is an introduction to the history, principles, and practices of the music industry. Topics will include music publishing, copyright, distribution, industry organization, producing, and general business functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MUM 2600 - Recording Techniques I

This course is designed as an introduction to basic audio engineering and studio practices. Listening exercises, phychoacoustics, microphone characteristics, and studio etiquette will be studied. In addition the student will study techniques and practices and procedures of multi-track recording, acoustical balancing, editing, and over dubbing in a variety of situations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MUM 1620 .

MUM 2601 - Recording Techniques II

This course explores advanced multi-track recording skills and audio production techniques, edits, use of outboard equipment and live multi-track recording.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MUM 1620 , MUM 2600 .

MUM 2604 - Multi-Track Mixdown (Post Production)

This course explores the application of signal processing equipment as it relates to multi-track master mixdowns. In addition, software and hardware application of mixdown is applied to post-production practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MUM 1620 , MUM 2600 , MUM 2601 .

Total Core Credits Required: 15

Total Program Credits Required: 64

Technical Elective Courses

MUL 1010 - Music Appreciation

Designed to develop a more intelligent understanding of and appreciation of music. By methodically surveying the main periods of Western Art Music from the Medieval Period through present day, this class will bring about an awareness of music as a vital source in human life, and will aid in developing positive attitudes toward culture and the fine arts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet AA Gordon Rule requirements for general education, a minimum grade of "C" is required. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the- Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful

completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

MUT 1121 - Music Theory I - Ear Training and Sight Singing

A study of the fundamentals of basic musicianship, music notation, understanding of simple rhythms, key situations, intervals, ear training, dictation, sight singing, major and minor scales, intervals, triads, chords, polyphonic composition and elementary keyboard work.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 1001 or instructor permission.

Note:

▲Technology-Across-the-Curriculum Course.

MUT 1122 - Music Theory II - Ear Training and Sight Singing

A continuation of MUT 1121 . Basic musicianship, writing and reading of music, ear training, dictation, sight singing will be studied, as well as major and minor scales, intervals, triads, seventh chords, inversions, cadences, periods and progressions in all keys. Two, three and four part chords and polyphonic composition.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 1121 .

Note:

▲Technology-Across-the-Curriculum Course.

MUT 2126 - Music Theory III – Ear Training and Sight Singing

A continuation of MUT 1121 and MUT 1122 . The harmonization and modulation of melodies through the use of nondominant harmony and the study of sequence writing. Incorporates keyboard harmony plus sight reading of chromatic melodies, large intervals, and advanced rhythms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 1122 .

MUT 2127 - Music Theory IV – Ear Training and Sight Singing

____ ____ Other Approved College Credits (MUL, MUM, MUN, MUS, MUT, MVB, MVK, MVP, MVS, MVV, MVW)
____ ____ Other Approved College Credits

The continued study of harmonization of melodies, sequence writing, sight reading, intervals, advanced rhythms and structures.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 2126 .

Total Technical Elective Credits Required: 31

Total Technical Elective Credits Required: 31

Total Program Credits Required: 64

Network Enterprise Administrator (CCC)

Admission Program of Study Code 6149 State CIP Code 0511100113
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 21

Technical Elective Courses

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the

three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 8

Total Program Credits Required: 29

Network Infrastructure (CCC)

Admission Program of Study Code 6154 State CIP Code 0511100114
This certificate program is for CISCO certifications. Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Technical Requirements

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 21

Network Security (CCC)

Admission Program of Study Code 6155 State CIP Code 0511100118
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Core Courses

CAP 2134C - Database Security

This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 and CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 24

Technical Elective Courses

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and

design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1854C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

COP 2XXX Any 2000 level COP prefix course 3 Credit Hours

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

recommended knowledge level of networking.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2314C - Network Defense and Countermeasures

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure and implement secure networks. Security topics covered in this course include firewalls, Intrusion Detection Systems (IDS), Virtual Private Networks (VPN) and policy creation using the Windows Operating System (OS), Transmission Control Protocol/Internet Protocol (TCP/IP) packet and signature analysis. The student will get hands-on instruction installing the network defense mechanisms and countermeasure applications. Software will be used for collecting, monitoring and auditing various activities; students will analyze threats and intrusions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1610C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 6

Total Program Credits Required: 30

Network Server Administration (CCC)

Admission Program of Study Code 6156 State CIP Code 0511100112
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account

strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 15

Technical Elective Courses

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 9

Total Program Credits Required: 24

Network Support Technician (CCC)

Admission Program of Study Code 6157 State CIP Code 0511100121
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 21

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 21

Total Program Credits Required: 21

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote

assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 21

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 21

Total Program Credits Required: 21

Network Systems Technology (AS)

Admission Program Objective Code 2146 State CIP Code 1511100111
Students may apply selected credits from this program to the requirements of the college credit Advanced Network Infrastructure (CCC) (State CIP Code 0511100115), Digital Forensics (CCC) (State CIP Code 0511100119), IP Communications (CCC) (State CIP Code 0511100120), Network Enterprise Administrator (CCC) (State CIP Code 0511100113), Network Infrastructure (CCC) (State CIP Code 0511100114), Network Security (CCC) (State CIP Code 0511100118), Network Server Administration (CCC) (State CIP Code 0511100112), Network Support Technician (CCC) (State CIP Code 0511100121), and/or UNIX/Linux System Administrator (CCC) (State CIP Code 0511100122).

General Education

Total General Education Credits Required: 18

Core Courses

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 and CGS 1570 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 21

Technical Elective Courses

CAP 2134C - Database Security

This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security

models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 and CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1675C - Introduction to IP Telephony

This course explains how companies are using IP Telephony equipment and software to efficiently upgrade existing telephone systems. In addition, the course will give the student a fundamental understanding of the architecture of voice communication and how signaling, call quality and public switched telephone networks operate in a LAN/WAN networking environment. The use of IP Telephony products will be discussed and how software allows companies to cost-effectively upgrade and eventually replace existing (legacy) telephone systems with more cost-effective and easy-to-use telephone equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2172C - Microcomputer Servicing

This course introduces the PC system, how it works and how the operating system controls it. Also studied are the components which make up the PC system, how to use multimeters and logic probes to make measurements and troubleshoot the system with the aid of diagnostic software. Students will perform fault analysis of simulated PC defects. In addition, students will learn to disassemble, reassemble and modify the PC hardware components.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2682C - Cisco Voice over IP (VoIP)

Instruction includes, but is not limited to, Voice over Internet Protocol (VoIP) theory, Voice Gateway configuration in a IP Telephony (IPT) solution, IP Phone configuration, design of VoIP networks and troubleshooting IPT networks. Students will design and configure various VoIP networks using case studies and laboratory equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 2620C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2854C - Fundamentals of Wireless LANs

Develop, implement and troubleshoot wireless networks. This hands-on, skill-based course focuses on the design, planning and operation of wireless networks, with an overview of technologies, security, and design best practices. This course helps prepare the student for the CISCO Wireless Certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2880C - Digital Forensics Fundamentals

This course offers a solid foundation to computer forensics investigations: preparing students to acquire and analyze digital evidence. the course covers tools and techniques and explains topics such as file structure, data recovery, e-mail and network investigations, and expert witness testimony. In addition, the student will gain practical knowledge in conducting digital investigations and preserving digital evidence that maybe used in court or corporate inquiries.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2881C - Digital Forensics II

Digital Forensics II builds upon the foundational knowledge learned in digital forensics fundamentals. Students will utilize industry standard tools to conduct examinations of various digital media and document their findings. Devices to be studied include computers (server, desktop, laptop), mobile devices (tablets, cell phones, smart phones, mp3 players, gps), and devices such as dvr's and routers. Emphasis will be placed upon real-world digital forensics scenarios and the investigative thought process. At the conclusion of the class, students will be prepared to take the accessdata certified examiner (ace) examination.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 2880C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1854C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2940 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2941 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2942 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

recommended knowledge level of networking.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2314C - Network Defense and Countermeasures

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure and implement secure networks. Security topics covered in this course include firewalls, Intrusion Detection Systems (IDS), Virtual Private Networks (VPN) and policy creation using the Windows Operating System (OS), Transmission Control Protocol/Internet Protocol (TCP/IP) packet and signature analysis. The student will get hands-on instruction installing the network defense mechanisms and countermeasure applications. Software will be used for collecting, monitoring and auditing various activities; students will analyze threats and intrusions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1610C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETG 1941 - Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MAD 2104 - Introduction to Discrete Mathematics

COP ____ Programming 3 Credit Hours
____ ____ Other Approved College Credits _

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 24

Total Program Credits Required: 63

Nursing R.N. (AS)

Admission Program Objective Code 2000 State CIP Code 1351380100
This program is a Limited Admission program subject to additional program policies and licensure requirements stipulated in the “Nursing Program Student Handbook.” Policies are strictly enforced and students should work with the Nursing Program staff rather than self-advise. The admission criteria and process are subject to change; students should contact the Associate Degree Nursing Program office for the most current information.

General Education

BSC 1085C - Anatomy and Physiology I

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ENC 1101 - English Composition I

____ ____ Humanities 3 Credit Hours

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

MAC 1105 - College Algebra or

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):

NUR 1021L , BSC 1086C , HUN 2201

Note:

Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents

within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021L or LPN licensure

Corequisite(s):

NUR 1231C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1231C or approval from the program director.

Corequisite(s):

NUR 2233L , MCB 2010C

Note:

Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized

adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1750L

Corequisite(s):

NUR 2233C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):

NUR 2241L , NUR 2811L , SYG 2000

Note:

Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2811L

Note:

Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):
NUR 2241C , NUR 2241L

Note:
Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):
NUR 1021L , BSC 1086C , HUN 2201

Note:
Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The

demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Admission to the AS Nursing Program

Corequisite(s):
NUR 1021C .

Note:
Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
Admission to the AS Nursing Program

Note:
Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
admission to the Nursing Program.

Note:
Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):
NUR 1750L , DEP 2004

Note:
Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1021L or LPN licensure

Corequisite(s):
NUR 1231C .

Note:
Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1231C or approval from the program director.

Corequisite(s):
NUR 2233L , MCB 2010C

Note:
Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1750L

Corequisite(s):
NUR 2233C .

Note:
Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):
NUR 2241L , NUR 2811L , SYG 2000

Note:
Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities

will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 2233L

Corequisite(s):
NUR 2241C , NUR 2811L

Note:
Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.
This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 2233L

Corequisite(s):
NUR 2241C , NUR 2241L

Note:
Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Program Credits Required: 72

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):

NUR 1021L , BSC 1086C , HUN 2201

Note:

Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021L or LPN licensure

Corequisite(s):

NUR 1231C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1231C or approval from the program director.

Corequisite(s):

NUR 2233L , MCB 2010C

Note:

Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1750L

Corequisite(s):

NUR 2233C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):

NUR 2241L , NUR 2811L , SYG 2000

Note:

Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2811L

Note:

Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2241L

Note:

Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Technical Electives (Not Required)

NSP 2049L - Nursing Practice Readiness

This elective laboratory course assists the nursing student to prepare for the RN licensure examination (NCLEX-RN). Web-based instructional methodologies allow the student to complete the course within a self-paced time frame. Students practice test taking skills, self-evaluation and other strategies to gain confidence in sitting for the NCLEX-RN.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

NUR 2241C or permission from Nursing Program Director.

Note:

Special Nursing Program policies may apply to this course.

NUR 1940L - Nursing Clinical Externship

This elective course is designed to offer students the opportunity to gain additional clinical skills practice during the summer semester. Working with a preceptor and the nursing faculty in area hospitals, clinics, or community settings , the student will be able to perform all skills learned in successfully completed nursing courses.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

admission to the AS Nursing Program; NUR 1750L

Note:

Special Nursing Program policies may apply to this course.

NUR 2931 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 1 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2932 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2933 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2934 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2935 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

General Education

BSC 1085C - Anatomy and Physiology I

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ENC 1101 - English Composition I

____ ____ Humanities 3 Credit Hours

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

MAC 1105 - College Algebra or

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):

NUR 1021L , BSC 1086C , HUN 2201

Note:

Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students

further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021L or LPN licensure

Corequisite(s):

NUR 1231C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1231C or approval from the program director.

Corequisite(s):

NUR 2233L , MCB 2010C

Note:

Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1750L

Corequisite(s):

NUR 2233C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):

NUR 2241L , NUR 2811L , SYG 2000

Note:

Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2811L

Note:

Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2241L

Note:

Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Program Credits Required: 72

General Education

BSC 1085C - Anatomy and Physiology I

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ENC 1101 - English Composition I

____ ____ Humanities 3 Credit Hours

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

MAC 1105 - College Algebra or

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):

NUR 1021L , BSC 1086C , HUN 2201

Note:

Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021L or LPN licensure

Corequisite(s):

NUR 1231C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1231C or approval from the program director.

Corequisite(s):

NUR 2233L , MCB 2010C

Note:

Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1750L

Corequisite(s):

NUR 2233C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):

NUR 2241L , NUR 2811L , SYG 2000

Note:

Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2811L

Note:

Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2241L

Note:

Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Program Credits Required: 72

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):

NUR 1021L , BSC 1086C , HUN 2201

Note:

Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021L or LPN licensure

Corequisite(s):

NUR 1231C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1231C or approval from the program director.

Corequisite(s):

NUR 2233L , MCB 2010C

Note:

Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1750L

Corequisite(s):

NUR 2233C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):

NUR 2241L , NUR 2811L , SYG 2000

Note:

Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2811L

Note:

Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place

in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 2233L

Corequisite(s):
NUR 2241C , NUR 2241L

Note:
Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Technical Electives (Not Required)

NSP 2049L - Nursing Practice Readiness

This elective laboratory course assists the nursing student to prepare for the RN licensure examination (NCLEX-RN). Web-based instructional methodologies allow the student to complete the course within a self-paced time frame. Students practice test taking skills, self-evaluation and other strategies to gain confidence in sitting for the NCLEX-RN.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
NUR 2241C or permission from Nursing Program Director.

Note:
Special Nursing Program policies may apply to this course.

NUR 1940L - Nursing Clinical Externship

This elective course is designed to offer students the opportunity to gain additional clinical skills practice during the summer semester. Working with a preceptor and the nursing faculty in area hospitals, clinics, or community settings , the student will be able to perform all skills learned in successfully completed nursing courses.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
admission to the AS Nursing Program; NUR 1750L

Note:
Special Nursing Program policies may apply to this course.

NUR 2931 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 1 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
admission to the AS Nursing program; permission of Nursing program Director.

NUR 2932 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
admission to the AS Nursing program; permission of Nursing program Director.

NUR 2933 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2934 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2935 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

Total Program Credits Required: 72

Technical Electives (Not Required)

NSP 2049L - Nursing Practice Readiness

This elective laboratory course assists the nursing student to prepare for the RN licensure examination (NCLEX-RN). Web-based instructional methodologies allow the student to complete the course within a self-paced time frame. Students practice test taking skills, self-evaluation and other strategies to gain confidence in sitting for the NCLEX-RN.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

NUR 2241C or permission from Nursing Program Director.

Note:

Special Nursing Program policies may apply to this course.

NUR 1940L - Nursing Clinical Externship

This elective course is designed to offer students the opportunity to gain additional clinical skills practice during the summer semester. Working with a preceptor and the nursing faculty in area hospitals, clinics, or community settings , the student will be able to perform all skills learned in successfully completed nursing courses.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

admission to the AS Nursing Program; NUR 1750L

Note:

Special Nursing Program policies may apply to this course.

NUR 2931 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 1 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2932 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2933 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2934 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2935 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

Total Program Credits Required: 72

General Education

BSC 1085C - Anatomy and Physiology I

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ENC 1101 - English Composition I

____ ____ Humanities 3 Credit Hours

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful

completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

MAC 1105 - College Algebra or

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Total General Education Credits Required: 20

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):

NUR 1021L , BSC 1086C , HUN 2201

Note:

Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021L or LPN licensure

Corequisite(s):

NUR 1231C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1231C or approval from the program director.

Corequisite(s):
NUR 2233L , MCB 2010C

Note:
Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience
Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1750L

Corequisite(s):
NUR 2233C .

Note:
Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV
Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):
NUR 2241L , NUR 2811L , SYG 2000

Note:
Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience
Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 2233L

Corequisite(s):
NUR 2241C , NUR 2811L

Note:
Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum
LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe

nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 2233L

Corequisite(s):
NUR 2241C , NUR 2241L

Note:
Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Program Credits Required: 72

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):

NUR 1021L , BSC 1086C , HUN 2201

Note:

Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021L or LPN licensure

Corequisite(s):

NUR 1231C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1231C or approval from the program director.

Corequisite(s):

NUR 2233L , MCB 2010C

Note:

Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1750L

Corequisite(s):

NUR 2233C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):

NUR 2241L , NUR 2811L , SYG 2000

Note:

Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2811L

Note:

Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2241L

Note:

Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):

NUR 1021L , BSC 1086C , HUN 2201

Note:

Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents

within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021L or LPN licensure

Corequisite(s):

NUR 1231C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1231C or approval from the program director.

Corequisite(s):

NUR 2233L , MCB 2010C

Note:

Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized

adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1750L

Corequisite(s):

NUR 2233C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):

NUR 2241L , NUR 2811L , SYG 2000

Note:

Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2811L

Note:

Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):
NUR 2241C , NUR 2241L

Note:
Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Core Courses

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):
NUR 1021L , BSC 1086C , HUN 2201

Note:
Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The

demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1021L or LPN licensure

Corequisite(s):
NUR 1231C .

Note:
Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1231C or approval from the program director.

Corequisite(s):
NUR 2233L , MCB 2010C

Note:
Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1750L

Corequisite(s):
NUR 2233C .

Note:
Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):
NUR 2241L , NUR 2811L , SYG 2000

Note:
Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities

will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 2233L

Corequisite(s):
NUR 2241C , NUR 2811L

Note:
Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

LPNs who successfully complete NUR 1142, NUR 1231C, NUR 1750L, NUR 2233C and NUR 2233L will receive credit for NUR 1021C, NUR 1021L, and NUR 1141.
This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 2233L

Corequisite(s):
NUR 2241C , NUR 2241L

Note:
Special Nursing Program policies may apply to this course.

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Core Credits Required: 52

Total Program Credits Required: 72

Technical Electives (Not Required)

NSP 2049L - Nursing Practice Readiness

This elective laboratory course assists the nursing student to prepare for the RN licensure examination (NCLEX-RN). Web-based instructional methodologies allow the student to complete the course within a self-paced time frame. Students practice test taking skills, self-evaluation and other strategies to gain confidence in sitting for the NCLEX-RN.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
NUR 2241C or permission from Nursing Program Director.

Note:
Special Nursing Program policies may apply to this course.

NUR 1940L - Nursing Clinical Externship

This elective course is designed to offer students the opportunity to gain additional clinical skills practice during the summer semester. Working with a preceptor and the nursing faculty in area hospitals, clinics, or community settings , the student will be able to perform all skills learned in successfully completed nursing courses.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

admission to the AS Nursing Program; NUR 1750L

Note:

Special Nursing Program policies may apply to this course.

NUR 2931 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 1 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2932 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2933 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2934 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2935 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

Total Program Credits Required: 72

Medical Office Management (CCC)

Admission Program of Study Code 6101 State CIP Code 0551071605

Students who successfully complete this certificate may be eligible to receive credits towards the Office Administration (AS) (State

CIP Code 1552020400).

Core Courses

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

HIM 1000 - Health Information and Delivery Systems

Orientation to medical records history and professional associations. Confidentiality, filing, retrieving, indexing, numbering, storage and content of the medical record is also discussed. The course includes job search skills and professional job performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

OST 1107 - Word Processing I

Integration of basic keyboarding and word processing – learning the keyboard, creating, editing, saving, and other word processing functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

▲Technology-Across-the-Curriculum Course.

OST 2117 - Word Processing II

Continuation of Typing and Word Processing I – develop keyboarding and document processing using a microcomputer.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

OST 1107 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

OST 2401 - General Office Management

Study of practices and procedures in the modern office. Emphasis on exercising judgment, handling incoming calls and callers, processing mail, word processing systems, editing and composing techniques, travel arrangements, banking procedures, employment applications and resumes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

OST 2117 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 21

Technical Elective Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders' equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

BSC 1080 - Essentials of Anatomy and Physiology

This course surveys basic structure and function of the human body with emphasis on terminology and anatomy.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEB 1940 - Internship - Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HIM 2272 - Healthcare Reimbursement

Emphasis on billing regulations for the State of Florida. Course content includes LMRPS, Workers' Compensation laws, Florida Medicare, and claims for automobile accident injuries.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

Knowledge of basic computer & keyboarding skills

Prereq/Corequisites:

HIM 2729

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM1275)

HIM 2724 - ICD Coding Part 1

This course provides a foundation using ICD-10-CM/PCS coding conventions, rules, methodology and sequencing, data sets, documentation requirements, and coding resources.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

HSC 1531 , BSC 1080 , HIM 1432

Prereq/Corequisites:

HIM 1000

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIMXXX1)

HIM 1432 - Pathopharmacology

Introduction to the nature, cause, and treatment of disease entities and the body's defense mechanisms. Commonly used drugs will also be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 1442 - Pharmacology for HIM Professionals

Pharmacology for HIM Professionals provides an overview of the pronunciation, spelling, actions and side effects of the most commonly prescribed medications. The course will examine pharmacological terms, abbreviations, and symbols used by healthcare providers to write prescriptions.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

BSC 1080 , HSC 1531 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2729 - ICD Coding Part 2

This course focuses on assigning appropriate ICD, DRG, and Level II (HCPCS) codes to a wide range of original source medical documents. This course increases the quality of code selection by applying the decision process in problem solving using well-defined medical record review methods and guidelines. Ethical practices will be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

BSC 1080 , HIM 2724 , HIM 1432 , HSC 1531 , knowledge of basic computer & keyboarding skills.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM2721)

HSA 1100 - Introduction to Health Care

Introduction to the healthcare delivery system and health related occupations. Also safety, security, and infection control procedures will be discussed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer)

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 1355 - Records Management

____ ____ Other Approved College Credits 3 Credit Hours

Methods and systems of filing used in business offices, filing equipment, and time-and-motion skills. Filing practice sets are used.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 13

Total Program Credits Required: 34

Office Specialist (CCC)

Admission Program of Study Code 6102 State CIP Code 0552040704
Students who successfully complete this certificate may be eligible to receive credits towards the Office Administration (AS) degree (State CIP Code 1552020400).

Core Courses

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

OST 1107 - Word Processing I

Integration of basic keyboarding and word processing – learning the keyboard, creating, editing, saving, and other word processing functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

▲Technology-Across-the-Curriculum Course.

OST 1355 - Records Management

Methods and systems of filing used in business offices, filing equipment, and time-and-motion skills. Filing practice sets are used.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

Total Core Credits Required: 12

Technical Elective Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner’s equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders’ equity. Preparation of the statement of cash flow will be emphasized. The code of

professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEB 1940 - Internship - Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
permission of the instructor

Note:
This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics
This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MTB 1103 - Business Mathematics
This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2117 - Word Processing II
____ ____ Other Approved College Credits _
Continuation of Typing and Word Processing I – develop keyboarding and document processing using a microcomputer.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
OST 1107 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 6

Total Program Credits Required: 18

Paralegal Studies (AS)

Admission Program Objective Code 2105 State CIP Code 1722030200

General Education

Total General Education Credits Required: 18

Core Courses

BUL 2241 - Business Law I
Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the

study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

PLA 1003 - Introduction to Paralegal Studies

This course is designed to give students a broad understanding of the nature of the paralegal profession and the elements contained within the profession, as well as its responsibility.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1005 - Legal Terminology

This course is designed to give an explanation of the common legal vocabulary involved in the broad, general principles of substantive and common law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1013 - Introduction to the Legal System

A practical introduction to the US legal system, types and sources of law, the courts, and related topics; a beginning course for students seeking careers in legal secretary technology or legal assisting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1114 - Legal Research and Writing

This course is designed to provide the student with necessary skills and knowledge required in legal research/case analysis and legal writing.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PLA 1003

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1203 - Civil Procedure

This course provides an insight into the system of dispute resolution for private parties and the government provided by the court systems of the various states and the federal government in a non-criminal setting.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1600 - Wills, Trusts, and Probate

This course is designed to provide the student with an introductory knowledge of estate planning, wills, and probate administration.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1800 - Introduction to Family Law

An introduction to practices as they relate to family law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 2273 - Tort Law

This course is designed to provide the student with an introductory knowledge of tort law with objectives centered on personal injury torts.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 27

Technical Elective Courses

BUL 2242 - Business Law II

Course context explores laws relative to negotiable instruments, agency, partnerships, (includes study of Uniform Partnership Act), corporation law, creditors rights, consumer protection and insurance. Based on Uniform Commercial Code.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

CJJ 1002 - Juvenile Delinquency

A study of the nature and cause of juvenile delinquency, the development of the delinquent and criminal behavior, specific criminal justice subsystem (law enforcement, judicial, corrections) problems dealing with juvenile delinquents from initial contact through final disposition and treatment. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJL 1100 - Criminal Law

Includes the study of the fundamentals of Criminal Law to include historical background and development, jurisdiction, the criminal act and responsibility, as well as, classification and analysis of Florida Statutes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CJL 1400 - Criminal Procedure

Includes the study of the fundamentals of constitutional, criminal and civil law; principles, duties and mechanics of criminal procedures in Florida as applied to arrest, search, seizure, and court processing; and a functional analysis of the rules of evidence in court procedures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CJL 2500 - Courts and the Judicial Process

This course is designed to teach the student the major structures and basic legal concepts of the American criminal court system. The students shall learn the components, personnel, and inherent social issues in our present criminal court system.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

LIS 2004 - Introduction to Internet Research

Introduction to Internet Research is a one-credit hour course offered by the Florida Public Community College system. This course is delivered via the World Wide Web and Internet e-mail. The course focuses on methods of accessing information resources available through the Internet. Students will learn to design search strategies, retrieve, evaluate, and cite Internet resources. The

World Wide Web, e-mail, discussion groups, chat, FTP, Gopher, and Telnet are some of the topics covered.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

a full service Internet account, including an electronic mail address from an Internet Service Provider (ISP), or access through a corporate or educational institution prior to beginning the course.

Note:

▲Technology-Across-the-Curriculum Course.

OST 1355 - Records Management

Methods and systems of filing used in business offices, filing equipment, and time-and-motion skills. Filing practice sets are used.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

OST 2401 - General Office Management

Study of practices and procedures in the modern office. Emphasis on exercising judgment, handling incoming calls and callers, processing mail, word processing systems, editing and composing techniques, travel arrangements, banking procedures, employment applications and resumes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

OST 2117 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

TAX 2000 - Federal Income Tax: Individual

___ ____ - Other Approved College Credits (PLA, CJL, CCJ preferred)

Federal Income Taxes. Determine income tax for individuals, interpretations of Internal Revenue Code and Regulation, tax planning and advisory service. Brief introduction to partnership, corporation, estate and gift taxes. Extensive practice problems in individual income tax returns and research in tax questions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PLA 2949 - Internship - Paralegal

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

completion of a minimum of 12 credit hours in the appropriate discipline, including PLA 1003 and permission of the instructor.

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

Total Technical Elective Credits Required: 19

Total Program Credits Required: 64

Paramedic (CCC)

Admission Program Objective Code 6095A State CIP Code 0351090405
Admission will be through a Limited Access application process. Graduates will be eligible to sit for the Paramedic certification exam. The curriculum forms the core of the Emergency Medical Services (AS) degree (State CIP Code 1351090402). Students may "add on" general education credits and some college credit electives to the Paramedic certificate and earn the A.S. degree. Students interested in pursuing this program should contact the Emergency Medical Services Office at (850) 729-4924.

Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and

National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2425L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

permission of the instructor

Corequisite(s):

EMS 2233 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program

Corequisite(s):

EMS 2231C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):

EMS 2435L

Corequisite(s):

EMS 2232C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her

degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EMS 2232C , EMS 2436L and permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate and CPR for Health Care Providers certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Program Credits Required: 42

Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2425L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

permission of the instructor

Corequisite(s):

EMS 2233 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program

Corequisite(s):

EMS 2231C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):

EMS 2435L

Corequisite(s):

EMS 2232C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
EMS 2232C , EMS 2436L and permission of the instructor

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate or permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate and CPR for Health Care Providers certification.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate or permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certification or permission from the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2425L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her

degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

permission of the instructor

Corequisite(s):

EMS 2233 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program

Corequisite(s):

EMS 2231C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):

EMS 2435L

Corequisite(s):

EMS 2232C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EMS 2232C , EMS 2436L and permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate and CPR for Health Care Providers certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2425L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

permission of the instructor

Corequisite(s):

EMS 2233 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program

Corequisite(s):

EMS 2231C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):

EMS 2435L

Corequisite(s):

EMS 2232C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EMS 2232C , EMS 2436L and permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate and CPR for Health Care Providers certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total Program Credits Required: 42

Total Program Credits Required: 42

Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2425L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

permission of the instructor

Corequisite(s):

EMS 2233 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Paramedic program

Corequisite(s):
EMS 2231C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):
EMS 2435L

Corequisite(s):
EMS 2232C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
EMS 2232C , EMS 2436L and permission of the instructor

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate or permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate and CPR for Health Care Providers certification.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Core Courses

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills

learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2425L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

permission of the instructor

Corequisite(s):

EMS 2233 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program

Corequisite(s):

EMS 2231C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):
EMS 2435L

Corequisite(s):
EMS 2232C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
EMS 2232C , EMS 2436L and permission of the instructor

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate or permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate and CPR for Health Care Providers certification.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate or permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Preschool Specialization (CCC)

Admission Program of Study Code 6024 State CIP Code 0419070908
Students who successfully complete this certificate may be eligible to receive credits towards the Early Childhood Education (AS) degree (State CIP Code 1413121003).

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:
DEP 2100 , and EEC 1309 or EEC 1201 .

Total Core Credits Required: 12

Total Core Credits Required: 12

Total Program Credits Required: 12

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:

DEP 2100 , and EEC 1309 or EEC 1201 .

Total Core Credits Required: 12

Total Core Credits Required: 12

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:
DEP 2100 , and EEC 1309 or EEC 1201 .

Total Core Credits Required: 12

Total Core Credits Required: 12

Core Courses

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:
DEP 2100 , and EEC 1309 or EEC 1201 .

Total Core Credits Required: 12

Total Core Credits Required: 12

Rapid Prototyping Specialist (CCC)

Admission Program of Study Code 6014 State CIP Code 0615000012
Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Digital Manufacturing Specialization (DM) Option (AS) or the Engineering Technology - Digital Design & Modeling Specialization Option (AS) Option (Both State CIP Code 1615000001).

Core Courses

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2371C or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 12

Core Courses

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-

Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2371C or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 12

Radiography (AS)

Admission Program Objective Code 2050 State CIP Code 1351090700

This program is a Limited Access program subject to additional policies and licensure requirements. Students attend classes at the Niceville Campus, and are assigned to clinical rotations at various healthcare facilities in the district. Graduates are eligible to sit for the ARRT certification exam. For additional information contact the Health Technology Department at (850) 729-6444.

General Education

BSC 1085C - Anatomy and Physiology I and

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

____ ____ - Social Science 3 Credit Hours

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

____ ____ - Communication Skills 3 Credit Hours

____ ____ - Humanities 3 Credit Hours
____ ____ - Mathematics 3 Credit Hours

BSC 2020C - Human Structure and Function or *

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 19

Note(s):

Core Courses

RTE 1000 - Introduction to Radiologic Technology

This course is designed to provide an overview of the history of radiography and the role and scope of practice of the practitioner in the healthcare delivery system. Organizations, accreditation, federal agencies, regulatory agencies (including OSHA) and professional credentialing will be discussed. Content includes a fundamental background in medical law, ethics, human diversity and patient consent. The student will examine a variety of ethical issues and dilemmas found in clinical practice, as well as developing a better understanding of patients, the patient's families, and professional peers through comparison of diverse populations based on value systems, cultural and ethnic influences, communication styles and socioeconomic influences. Radiographic Medical Terminology will be covered.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1111 - Introduction to Radiographic Patient Care

This course is designed to prepare radiography students to provide basic patient care. Basic concepts of patient care will be described, as well as infection control procedures and standard precautions. This course includes hospital specific training. Health risks, life stages, HIV/AIDs and domestic violence will be discussed. This course also includes an introduction to medical and radiographic terminology. Topics include vital signs, venipuncture, body mechanics and transport, verbal/nonverbal communication, and some pharmacology.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1418 - Radiographic Techniques I

This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiographic images. This course introduces the student to a comprehensive study and theory of the production of x-rays and primary exposure factors of radiographic imaging. The image parameters of density, contrast, recorded detail, image distortion and blur will be studied as well as ancillary devices and equipment required to produce a quality radiographic image. Film and digital

imaging with related accessories will be emphasized. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1457 - Radiographic Techniques II

This course is a continuation of RTE 1418 Radiographic Techniques I , and is designed to introduce the student to various specific radiographic methods and techniques, such as automatic exposure control, fluoroscopy and image intensification, macroradiography, subtraction radiography, conventional tomography, digital image receptors, and digital image acquisition and manipulation. The student will also be instructed in calculating heat units, tube rating charts, anode cooling chart, and characteristic curves.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418 .

Corequisite(s):

RTE 1613 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1503C - Radiographic Procedures I

This course is designed to provide the Radiography student with instruction in radiographic examinations of the chest, abdomen, upper extremity and lower extremity. An introduction to medical and radiographic terminology, radiographic anatomy, and image critique are also included.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1513C - Radiographic Procedures II

This course is a continuation of RTE 1503C . It is designed to provide the student with instruction in radiographic procedures and anatomy in the distal extremities, hip region, spine, ribs, and sternum and the cranium. Critical thinking, medical and radiographic terminology, as well as image critique are emphasized.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1503C , RTE 1804L

Corequisite(s):

RTE 1814L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1613 - Radiographic Physics

This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Course content also includes the basics of magnetism, electricity, motors, generators, rectifying systems, x-ray tube and filament circuitry. Topics in electromagnetism such as self and mutual induction, high voltage transformation, and AC rectification will be emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418

Corequisite(s):

RTE 1457 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1804L - Radiography Clinical Education I

This course involves the practical application of the theories covered in RTE 1503C and RTE 1000 . Rotations provide experience with various imaging systems, protocols, and patient care. Students observe, assist and perform basic radiographic procedures (chest, abdomen and extremities) under direct supervision. This course emphasizes patient care and critical thinking. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1814L - Radiography Clinical Education II

This course is a continuation of Radiography Clinical Education I. This clinical training emphasizes lower and upper extremity. Medical and radiographic terminology, patient care, critical thinking and communication skills are emphasized. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1804L

Corequisite(s):

RTE 1513C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1824L - Radiography Clinical Education III

This course is a continuation of Radiography Clinical Education II. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I and II. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, critical thinking, imaging and exposure techniques, radiation protection application and image processing will be emphasized. This rotation covers clinical experience in all phases of fundamental radiologic procedures and image critique. Students will rotate through ancillary departments in this course.

Credit Hour(s): 4 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1814L

Corequisite(s):

RTE 2523C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2061 - Radiographic Preparation for Practice

This course is designed review information in preparation for the student to take the American Registry of Radiologic Technologist (ARRT) registry examination. The course will cover patient care and education, image production, equipment operation and maintenance, radiographic procedures and radiation protection. The student will also be given simulated registry examinations for practice and assessment purposes.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2385 - Radiographic Protection and Biology

This course is designed to provide the student with an overview of the principles of interaction of ionizing radiation with lining systems. Ionizing effects on molecules, cells, tissues and the body as a whole are presented, along with factors affecting biological response, including; acute, chronic, stochastic and non-stochastic effects. This course is also designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated, as are the various methods of monitoring radiation exposure and acceptable dose limit values.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1000 , RTE 1418 , RTE 1457 , RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2473 - Radiographic Quality Assurance

This course is designed to introduce the student to the quality management of medical imaging, including quality control procedures and image analysis/critique of radiographs. This course will include theory and practical applications to routine quality control check on routine, fluoroscopic, mobile, and tomographic radiography equipment. Quality control tests on ancillary equipment, such as film processor, view boxes, grids and leaded protective equipment are also included. Acceptable parameters for QC tests, as established by various regulatory agencies will also be presented. This course teaches the student to critically analyze radiographic images for image quality and diagnostic value, as well as formulating corrective action as needed. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1418 , RTE 1457

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2523C - Radiographic Procedures III

This course is a continuation of RTE 1513C covering cranium procedures and positioning. It is designed to provide the student with instruction in more complex radiographic procedures such as fluoroscopy, urinary studies, bone age, trauma, pediatrics, mobile and surgical radiography. Included is instruction in additional modalities and studies such as CT, MRI, arthography, myelography, and vascular studies. Attention will be given to the specialized equipment, contrast media, critical thinking and techniques necessary to perform these procedures. Radiographic anatomy, pathology, and critique of images are included in this course.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1513C

Corequisite(s):

RTE 1824L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS

Articulation Agreement.

RTE 2782 - Radiographic Pathology

This course is designed to introduce theories of disease causation and the pathophysiologic disorder that compromise healthy persons. Etiology, pathophysiologic responses, clinical manifestations, and radiographic appearance of alterations in body systems will be presented. Emphasis will be placed on pathological findings on diagnostic radiographic images, in both conventional and digital formats.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2844L - Radiography Clinical Education IV

This course is a continuation of RTE 1824L . The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I, II and III. The student will gain experience and develop clinical competence in specialized imaging procedures, and mobile, surgical and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1824L

Corequisite(s):

RTE 2385 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2854L - Radiography Clinical Education V

This course is a continuation of RTE 2844L . The terminal objective for this course is to prepare the student for employment as an entry level technologist. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I-IV and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2061 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2910 - Radiographic Evidence Based Practice

This course is designed to develop the student's research, writing and oral presentation skills; while completing assignments, both independently and collaboratively, with minimal direction and supervision. Methods of research, appropriate style of writing, citing work, and using APA format will be covered.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student

transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2571 - Introduction to Computed Tomography

All RTE courses must be completed with a grade of 75 or higher to progress in the Radiography Program.
This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):
RTE 1457

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Program Credits Required: 77

Core Courses

RTE 1000 - Introduction to Radiologic Technology

This course is designed to provide an overview of the history of radiography and the role and scope of practice of the practitioner in the healthcare delivery system. Organizations, accreditation, federal agencies, regulatory agencies (including OSHA) and professional credentialing will be discussed. Content includes a fundamental background in medical law, ethics, human diversity and patient consent. The student will examine a variety of ethical issues and dilemmas found in clinical practice, as well as developing a better understanding of patients, the patient's families, and professional peers through comparison of diverse populations based on value systems, cultural and ethnic influences, communication styles and socioeconomic influences. Radiographic Medical Terminology will be covered.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1111 - Introduction to Radiographic Patient Care

This course is designed to prepare radiography students to provide basic patient care. Basic concepts of patient care will be described, as well as infection control procedures and standard precautions. This course includes hospital specific training. Health risks, life stages, HIV/AIDs and domestic violence will be discussed. This course also includes an introduction to medical and radiographic terminology. Topics include vital signs, venipuncture, body mechanics and transport, verbal/nonverbal communication, and some pharmacology.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1418 - Radiographic Techniques I

This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiographic images. This course introduces the student to a comprehensive study and theory of the production of x-rays and primary exposure factors of radiographic imaging. The image parameters of density, contrast, recorded detail, image distortion and blur will be studied as well as ancillary devices and equipment required to produce a quality radiographic image. Film and digital imaging with related accessories will be emphasized. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1457 - Radiographic Techniques II

This course is a continuation of RTE 1418 Radiographic Techniques I , and is designed to introduce the student to various specific radiographic methods and techniques, such as automatic exposure control, fluoroscopy and image intensification, macroradiography, subtraction radiography, conventional tomography, digital image receptors, and digital image acquisition and manipulation. The student will also be instructed in calculating heat units, tube rating charts, anode cooling chart, and characteristic curves.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418 .

Corequisite(s):

RTE 1613 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1503C - Radiographic Procedures I

This course is designed to provide the Radiography student with instruction in radiographic examinations of the chest, abdomen, upper extremity and lower extremity. An introduction to medical and radiographic terminology, radiographic anatomy, and image critique are also included.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS

Articulation Agreement.

RTE 1513C - Radiographic Procedures II

This course is a continuation of RTE 1503C . It is designed to provide the student with instruction in radiographic procedures and anatomy in the distal extremities, hip region, spine, ribs, and sternum and the cranium. Critical thinking, medical and radiographic terminology, as well as image critique are emphasized.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1503C , RTE 1804L

Corequisite(s):

RTE 1814L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1613 - Radiographic Physics

This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Course content also includes the basics of magnetism, electricity, motors, generators, rectifying systems, x-ray tube and filament circuitry. Topics in electromagnetism such as self and mutual induction, high voltage transformation, and AC rectification will be emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418

Corequisite(s):

RTE 1457 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1804L - Radiography Clinical Education I

This course involves the practical application of the theories covered in RTE 1503C and RTE 1000 . Rotations provide experience with various imaging systems, protocols, and patient care. Students observe, assist and perform basic radiographic procedures (chest, abdomen and extremities) under direct supervision. This course emphasizes patient care and critical thinking. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1814L - Radiography Clinical Education II

This course is a continuation of Radiography Clinical Education I. This clinical training emphasizes lower and upper extremity. Medical and radiographic terminology, patient care, critical thinking and communication skills are emphasized. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1804L

Corequisite(s):

RTE 1513C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1824L - Radiography Clinical Education III

This course is a continuation of Radiography Clinical Education II. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I and II. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, critical thinking, imaging and exposure techniques, radiation protection application and image processing will be emphasized. This rotation covers clinical experience in all phases of fundamental radiologic procedures and image critique. Students will rotate through ancillary departments in this course.

Credit Hour(s): 4 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1814L

Corequisite(s):

RTE 2523C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2061 - Radiographic Preparation for Practice

This course is designed review information in preparation for the student to take the American Registry of Radiologic Technologist (ARRT) registry examination. The course will cover patient care and education, image production, equipment operation and maintenance, radiographic procedures and radiation protection. The student will also be given simulated registry examinations for practice and assessment purposes.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2385 - Radiographic Protection and Biology

This course is designed to provide the student with an overview of the principles of interaction of ionizing radiation with lining systems. Ionizing effects on molecules, cells, tissues and the body as a whole are presented, along with factors affecting biological response, including; acute, chronic, stochastic and non-stochastic effects. This course is also designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated, as are the various methods of monitoring radiation exposure and acceptable dose limit values.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1000 , RTE 1418 , RTE 1457 , RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2473 - Radiographic Quality Assurance

This course is designed to introduce the student to the quality management of medical imaging, including quality control procedures and image analysis/critique of radiographs. This course will include theory and practical applications to routine quality control check on routine, fluoroscopic, mobile, and tomographic radiography equipment. Quality control tests on ancillary equipment, such as film processor, view boxes, grids and leaded protective equipment are also included. Acceptable parameters for QC tests, as established by various regulatory agencies will also be presented. This course teaches the student to critically analyze radiographic images for image quality and diagnostic value, as well as formulating corrective action as needed. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1418 , RTE 1457

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2523C - Radiographic Procedures III

This course is a continuation of RTE 1513C covering cranium procedures and positioning. It is designed to provide the student with instruction in more complex radiographic procedures such as fluoroscopy, urinary studies, bone age, trauma, pediatrics, mobile and surgical radiography. Included is instruction in additional modalities and studies such as CT, MRI, arthography, myelography, and vascular studies. Attention will be given to the specialized equipment, contrast media, critical thinking and techniques necessary to perform these procedures. Radiographic anatomy, pathology, and critique of images are included in this course.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1513C

Corequisite(s):

RTE 1824L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2782 - Radiographic Pathology

This course is designed to introduce theories of disease causation and the pathophysiologic disorder that compromise healthy persons. Etiology, pathophysiologic responses, clinical manifestations, and radiographic appearance of alterations in body systems will be presented. Emphasis will be placed on pathological findings on diagnostic radiographic images, in both conventional and digital formats.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2844L - Radiography Clinical Education IV

This course is a continuation of RTE 1824L . The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I, II and III. The student will gain experience and develop clinical competence in specialized imaging procedures, and mobile, surgical and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1824L

Corequisite(s):

RTE 2385 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2854L - Radiography Clinical Education V

This course is a continuation of RTE 2844L . The terminal objective for this course is to prepare the student for employment as an entry level technologist. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's

I-IV and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2061 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2910 - Radiographic Evidence Based Practice

This course is designed to develop the student's research, writing and oral presentation skills; while completing assignments, both independently and collaboratively, with minimal direction and supervision. Methods of research, appropriate style of writing, citing work, and using APA format will be covered.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2571 - Introduction to Computed Tomography

All RTE courses must be completed with a grade of 75 or higher to progress in the Radiography Program.
This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):

RTE 1457

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Core Courses

RTE 1000 - Introduction to Radiologic Technology

This course is designed to provide an overview of the history of radiography and the role and scope of practice of the practitioner in the healthcare delivery system. Organizations, accreditation, federal agencies, regulatory agencies (including OSHA) and professional credentialing will be discussed. Content includes a fundamental background in medical law, ethics, human diversity and patient consent. The student will examine a variety of ethical issues and dilemmas found in clinical practice, as well as developing a better understanding of patients, the patient's families, and professional peers through comparison of diverse populations based on value systems, cultural and ethnic influences, communication styles and socioeconomic influences. Radiographic Medical Terminology will be covered.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1111 - Introduction to Radiographic Patient Care

This course is designed to prepare radiography students to provide basic patient care. Basic concepts of patient care will be described, as well as infection control procedures and standard precautions. This course includes hospital specific training. Health risks, life stages, HIV/AIDs and domestic violence will be discussed. This course also includes an introduction to medical and radiographic terminology. Topics include vital signs, venipuncture, body mechanics and transport, verbal/nonverbal communication, and some pharmacology.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1418 - Radiographic Techniques I

This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiographic images. This course introduces the student to a comprehensive study and theory of the production of x-rays and primary exposure factors of radiographic imaging. The image parameters of density, contrast, recorded detail, image distortion and blur will be studied as well as ancillary devices and equipment required to produce a quality radiographic image. Film and digital imaging with related accessories will be emphasized. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1457 - Radiographic Techniques II

This course is a continuation of RTE 1418 Radiographic Techniques I , and is designed to introduce the student to various specific radiographic methods and techniques, such as automatic exposure control, fluoroscopy and image intensification, macroradiography, subtraction radiography, conventional tomography, digital image receptors, and digital image acquisition and

manipulation. The student will also be instructed in calculating heat units, tube rating charts, anode cooling chart, and characteristic curves.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418 .

Corequisite(s):

RTE 1613 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1503C - Radiographic Procedures I

This course is designed to provide the Radiography student with instruction in radiographic examinations of the chest, abdomen, upper extremity and lower extremity. An introduction to medical and radiographic terminology, radiographic anatomy, and image critique are also included.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1513C - Radiographic Procedures II

This course is a continuation of RTE 1503C . It is designed to provide the student with instruction in radiographic procedures and anatomy in the distal extremities, hip region, spine, ribs, and sternum and the cranium. Critical thinking, medical and radiographic terminology, as well as image critique are emphasized.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1503C , RTE 1804L

Corequisite(s):

RTE 1814L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1613 - Radiographic Physics

This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Course content also includes the basics of magnetism, electricity, motors, generators, rectifying systems, x-ray tube and filament circuitry. Topics in electromagnetism such as self and mutual induction, high voltage transformation, and AC rectification will be emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418

Corequisite(s):

RTE 1457 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1804L - Radiography Clinical Education I

This course involves the practical application of the theories covered in RTE 1503C and RTE 1000 . Rotations provide experience with various imaging systems, protocols, and patient care. Students observe, assist and perform basic radiographic procedures (chest, abdomen and extremities) under direct supervision. This course emphasizes patient care and critical thinking. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1814L - Radiography Clinical Education II

This course is a continuation of Radiography Clinical Education I. This clinical training emphasizes lower and upper extremity. Medical and radiographic terminology, patient care, critical thinking and communication skills are emphasized. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1804L

Corequisite(s):

RTE 1513C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1824L - Radiography Clinical Education III

This course is a continuation of Radiography Clinical Education II. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I and II. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, critical thinking, imaging and exposure techniques, radiation protection application and image processing will be emphasized. This rotation covers clinical experience in all phases of fundamental radiologic procedures and image critique. Students will rotate through ancillary departments in this course.

Credit Hour(s): 4 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1814L

Corequisite(s):

RTE 2523C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2061 - Radiographic Preparation for Practice

This course is designed review information in preparation for the student to take the American Registry of Radiologic Technologist (ARRT) registry examination. The course will cover patient care and education, image production, equipment operation and maintenance, radiographic procedures and radiation protection. The student will also be given simulated registry examinations for practice and assessment purposes.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2385 - Radiographic Protection and Biology

This course is designed to provide the student with an overview of the principles of interaction of ionizing radiation with lining systems. Ionizing effects on molecules, cells, tissues and the body as a whole are presented, along with factors affecting biological response, including; acute, chronic, stochastic and non-stochastic effects. This course is also designed to present an overview of

the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated, as are the various methods of monitoring radiation exposure and acceptable dose limit values.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1000 , RTE 1418 , RTE 1457 , RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2473 - Radiographic Quality Assurance

This course is designed to introduce the student to the quality management of medical imaging, including quality control procedures and image analysis/critique of radiographs. This course will include theory and practical applications to routine quality control check on routine, fluoroscopic, mobile, and tomographic radiography equipment. Quality control tests on ancillary equipment, such as film processor, view boxes, grids and leaded protective equipment are also included. Acceptable parameters for QC tests, as established by various regulatory agencies will also be presented. This course teaches the student to critically analyze radiographic images for image quality and diagnostic value, as well as formulating corrective action as needed. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1418 , RTE 1457

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2523C - Radiographic Procedures III

This course is a continuation of RTE 1513C covering cranium procedures and positioning. It is designed to provide the student with instruction in more complex radiographic procedures such as fluoroscopy, urinary studies, bone age, trauma, pediatrics, mobile and surgical radiography. Included is instruction in additional modalities and studies such as CT, MRI, arthography, myelography, and vascular studies. Attention will be given to the specialized equipment, contrast media, critical thinking and techniques necessary to perform these procedures. Radiographic anatomy, pathology, and critique of images are included in this course.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1513C

Corequisite(s):

RTE 1824L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2782 - Radiographic Pathology

This course is designed to introduce theories of disease causation and the pathophysiologic disorder that compromise healthy persons. Etiology, pathophysiologic responses, clinical manifestations, and radiographic appearance of alterations in body systems will be presented. Emphasis will be placed on pathological findings on diagnostic radiographic images, in both conventional and digital formats.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2844L - Radiography Clinical Education IV

This course is a continuation of RTE 1824L . The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I, II and III. The student will gain experience and develop clinical competence in specialized imaging procedures, and mobile, surgical and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1824L

Corequisite(s):

RTE 2385 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2854L - Radiography Clinical Education V

This course is a continuation of RTE 2844L . The terminal objective for this course is to prepare the student for employment as an entry level technologist. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I-IV and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2061 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2910 - Radiographic Evidence Based Practice

This course is designed to develop the student's research, writing and oral presentation skills; while completing assignments, both independently and collaboratively, with minimal direction and supervision. Methods of research, appropriate style of writing, citing work, and using APA format will be covered.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2571 - Introduction to Computed Tomography

All RTE courses must be completed with a grade of 75 or higher to progress in the Radiography Program.
This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):

RTE 1457

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Program Credits Required: 77

Total Program Credits Required: 77

General Education

BSC 1085C - Anatomy and Physiology I and

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

____ ____ - Social Science 3 Credit Hours

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

____ ____ - Communication Skills 3 Credit Hours

____ ____ - Humanities 3 Credit Hours

____ ____ - Mathematics 3 Credit Hours

BSC 2020C - Human Structure and Function or *

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 19

Note(s):

General Education

BSC 1085C - Anatomy and Physiology I and

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

____ ____ - Social Science 3 Credit Hours

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

____ ____ - Communication Skills 3 Credit Hours

____ ____ - Humanities 3 Credit Hours

____ ____ - Mathematics 3 Credit Hours

BSC 2020C - Human Structure and Function or *

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Total General Education Credits Required: 19

Note(s):

Core Courses

RTE 1000 - Introduction to Radiologic Technology

This course is designed to provide an overview of the history of radiography and the role and scope of practice of the practitioner in the healthcare delivery system. Organizations, accreditation, federal agencies, regulatory agencies (including OSHA) and professional credentialing will be discussed. Content includes a fundamental background in medical law, ethics, human diversity and patient consent. The student will examine a variety of ethical issues and dilemmas found in clinical practice, as well as developing a better understanding of patients, the patient’s families, and professional peers through comparison of diverse populations based on value systems, cultural and ethnic influences, communication styles and socioeconomic influences. Radiographic Medical Terminology will be covered.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1111 - Introduction to Radiographic Patient Care

This course is designed to prepare radiography students to provide basic patient care. Basic concepts of patient care will be described, as well as infection control procedures and standard precautions. This course includes hospital specific training. Health risks, life stages, HIV/AIDs and domestic violence will be discussed. This course also includes an introduction to medical and radiographic terminology. Topics include vital signs, venipuncture, body mechanics and transport, verbal/nonverbal communication, and some pharmacology.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1418 - Radiographic Techniques I

This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiographic images. This course introduces the student to a comprehensive study and theory of the production of x-rays and primary exposure factors of radiographic imaging. The image parameters of density, contrast, recorded detail, image distortion and blur will be studied as well as ancillary devices and equipment required to produce a quality radiographic image. Film and digital imaging with related accessories will be emphasized. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1457 - Radiographic Techniques II

This course is a continuation of RTE 1418 Radiographic Techniques I , and is designed to introduce the student to various specific radiographic methods and techniques, such as automatic exposure control, fluoroscopy and image intensification, macroradiography, subtraction radiography, conventional tomography, digital image receptors, and digital image acquisition and manipulation. The student will also be instructed in calculating heat units, tube rating charts, anode cooling chart, and characteristic curves.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418 .

Corequisite(s):

RTE 1613 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1503C - Radiographic Procedures I

This course is designed to provide the Radiography student with instruction in radiographic examinations of the chest, abdomen, upper extremity and lower extremity. An introduction to medical and radiographic terminology, radiographic anatomy, and image critique are also included.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1513C - Radiographic Procedures II

This course is a continuation of RTE 1503C . It is designed to provide the student with instruction in radiographic procedures and anatomy in the distal extremities, hip region, spine, ribs, and sternum and the cranium. Critical thinking, medical and radiographic terminology, as well as image critique are emphasized.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1503C , RTE 1804L

Corequisite(s):

RTE 1814L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1613 - Radiographic Physics

This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Course content also includes the basics of magnetism, electricity, motors, generators, rectifying systems, x-ray tube and filament circuitry. Topics in electromagnetism such as self and mutual induction, high voltage transformation, and AC rectification will be emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418

Corequisite(s):

RTE 1457 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1804L - Radiography Clinical Education I

This course involves the practical application of the theories covered in RTE 1503C and RTE 1000 . Rotations provide experience with various imaging systems, protocols, and patient care. Students observe, assist and perform basic radiographic procedures (chest, abdomen and extremities) under direct supervision. This course emphasizes patient care and critical thinking. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1814L - Radiography Clinical Education II

This course is a continuation of Radiography Clinical Education I. This clinical training emphasizes lower and upper extremity. Medical and radiographic terminology, patient care, critical thinking and communication skills are emphasized. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1804L

Corequisite(s):

RTE 1513C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student

transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1824L - Radiography Clinical Education III

This course is a continuation of Radiography Clinical Education II. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I and II. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, critical thinking, imaging and exposure techniques, radiation protection application and image processing will be emphasized. This rotation covers clinical experience in all phases of fundamental radiologic procedures and image critique. Students will rotate through ancillary departments in this course.

Credit Hour(s): 4 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1814L

Corequisite(s):

RTE 2523C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2061 - Radiographic Preparation for Practice

This course is designed review information in preparation for the student to take the American Registry of Radiologic Technologist (ARRT) registry examination. The course will cover patient care and education, image production, equipment operation and maintenance, radiographic procedures and radiation protection. The student will also be given simulated registry examinations for practice and assessment purposes.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2385 - Radiographic Protection and Biology

This course is designed to provide the student with an overview of the principles of interaction of ionizing radiation with lining systems. Ionizing effects on molecules, cells, tissues and the body as a whole are presented, along with factors affecting biological response, including; acute, chronic, stochastic and non-stochastic effects. This course is also designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated, as are the various methods of monitoring radiation exposure and acceptable dose limit values.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1000 , RTE 1418 , RTE 1457 , RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2473 - Radiographic Quality Assurance

This course is designed to introduce the student to the quality management of medical imaging, including quality control procedures and image analysis/critique of radiographs. This course will include theory and practical applications to routine quality control check on routine, fluoroscopic, mobile, and tomographic radiography equipment. Quality control tests on ancillary equipment, such as film processor, view boxes, grids and leaded protective equipment are also included. Acceptable parameters for QC tests, as established by various regulatory agencies will also be presented. This course teaches the student to critically

analyze radiographic images for image quality and diagnostic value, as well as formulating corrective action as needed. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1418 , RTE 1457

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2523C - Radiographic Procedures III

This course is a continuation of RTE 1513C covering cranium procedures and positioning. It is designed to provide the student with instruction in more complex radiographic procedures such as fluoroscopy, urinary studies, bone age, trauma, pediatrics, mobile and surgical radiography. Included is instruction in additional modalities and studies such as CT, MRI, arthography, myelography, and vascular studies. Attention will be given to the specialized equipment, contrast media, critical thinking and techniques necessary to perform these procedures. Radiographic anatomy, pathology, and critique of images are included in this course.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1513C

Corequisite(s):

RTE 1824L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2782 - Radiographic Pathology

This course is designed to introduce theories of disease causation and the pathophysiologic disorder that compromise healthy persons. Etiology, pathophysiologic responses, clinical manifestations, and radiographic appearance of alterations in body systems will be presented. Emphasis will be placed on pathological findings on diagnostic radiographic images, in both conventional and digital formats.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2844L - Radiography Clinical Education IV

This course is a continuation of RTE 1824L . The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I, II and III. The student will gain experience and develop clinical competence in specialized imaging procedures, and mobile, surgical and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1824L

Corequisite(s):

RTE 2385 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2854L - Radiography Clinical Education V

This course is a continuation of RTE 2844L . The terminal objective for this course is to prepare the student for employment as an entry level technologist. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I-IV and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2061 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2910 - Radiographic Evidence Based Practice

This course is designed to develop the student's research, writing and oral presentation skills; while completing assignments, both independently and collaboratively, with minimal direction and supervision. Methods of research, appropriate style of writing, citing work, and using APA format will be covered.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2571 - Introduction to Computed Tomography

All RTE courses must be completed with a grade of 75 or higher to progress in the Radiography Program.
This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):

RTE 1457

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Core Courses

RTE 1000 - Introduction to Radiologic Technology

This course is designed to provide an overview of the history of radiography and the role and scope of practice of the practitioner in the healthcare delivery system. Organizations, accreditation, federal agencies, regulatory agencies (including OSHA) and professional credentialing will be discussed. Content includes a fundamental background in medical law, ethics, human diversity and patient consent. The student will examine a variety of ethical issues and dilemmas found in clinical practice, as well as developing a better understanding of patients, the patient's families, and professional peers through comparison of diverse populations based on value systems, cultural and ethnic influences, communication styles and socioeconomic influences. Radiographic Medical Terminology will be covered.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1111 - Introduction to Radiographic Patient Care

This course is designed to prepare radiography students to provide basic patient care. Basic concepts of patient care will be described, as well as infection control procedures and standard precautions. This course includes hospital specific training. Health risks, life stages, HIV/AIDs and domestic violence will be discussed. This course also includes an introduction to medical and radiographic terminology. Topics include vital signs, venipuncture, body mechanics and transport, verbal/nonverbal communication, and some pharmacology.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1418 - Radiographic Techniques I

This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiographic images. This course introduces the student to a comprehensive study and theory of the production of x-rays and primary exposure factors of radiographic imaging. The image parameters of density, contrast, recorded detail, image distortion and blur will be studied as well as ancillary devices and equipment required to produce a quality radiographic image. Film and digital imaging with related accessories will be emphasized. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1457 - Radiographic Techniques II

This course is a continuation of RTE 1418 Radiographic Techniques I , and is designed to introduce the student to various specific radiographic methods and techniques, such as automatic exposure control, fluoroscopy and image intensification, macroradiography, subtraction radiography, conventional tomography, digital image receptors, and digital image acquisition and manipulation. The student will also be instructed in calculating heat units, tube rating charts, anode cooling chart, and characteristic curves.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418 .

Corequisite(s):

RTE 1613 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1503C - Radiographic Procedures I

This course is designed to provide the Radiography student with instruction in radiographic examinations of the chest, abdomen, upper extremity and lower extremity. An introduction to medical and radiographic terminology, radiographic anatomy, and image critique are also included.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1513C - Radiographic Procedures II

This course is a continuation of RTE 1503C . It is designed to provide the student with instruction in radiographic procedures and anatomy in the distal extremities, hip region, spine, ribs, and sternum and the cranium. Critical thinking, medical and radiographic terminology, as well as image critique are emphasized.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1503C , RTE 1804L

Corequisite(s):

RTE 1814L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1613 - Radiographic Physics

This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Course content also includes the basics of magnetism, electricity, motors, generators, rectifying systems, x-ray tube and filament circuitry. Topics in electromagnetism such as self and mutual induction, high voltage transformation, and AC rectification will be emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418

Corequisite(s):

RTE 1457 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1804L - Radiography Clinical Education I

This course involves the practical application of the theories covered in RTE 1503C and RTE 1000 . Rotations provide experience with various imaging systems, protocols, and patient care. Students observe, assist and perform basic radiographic procedures (chest, abdomen and extremities) under direct supervision. This course emphasizes patient care and critical thinking. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1814L - Radiography Clinical Education II

This course is a continuation of Radiography Clinical Education I. This clinical training emphasizes lower and upper extremity. Medical and radiographic terminology, patient care, critical thinking and communication skills are emphasized. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1804L

Corequisite(s):

RTE 1513C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1824L - Radiography Clinical Education III

This course is a continuation of Radiography Clinical Education II. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I and II. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, critical thinking, imaging and exposure techniques, radiation protection application and image processing will be emphasized. This rotation covers clinical experience in all phases of fundamental radiologic procedures and image critique. Students will rotate through ancillary departments in this course.

Credit Hour(s): 4 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1814L

Corequisite(s):

RTE 2523C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2061 - Radiographic Preparation for Practice

This course is designed review information in preparation for the student to take the American Registry of Radiologic Technologist (ARRT) registry examination. The course will cover patient care and education, image production, equipment operation and maintenance, radiographic procedures and radiation protection. The student will also be given simulated registry examinations for practice and assessment purposes.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2385 - Radiographic Protection and Biology

This course is designed to provide the student with an overview of the principles of interaction of ionizing radiation with lining systems. Ionizing effects on molecules, cells, tissues and the body as a whole are presented, along with factors affecting biological response, including; acute, chronic, stochastic and non-stochastic effects. This course is also designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated, as are the various methods of monitoring radiation exposure and acceptable dose limit values.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1000 , RTE 1418 , RTE 1457 , RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2473 - Radiographic Quality Assurance

This course is designed to introduce the student to the quality management of medical imaging, including quality control procedures and image analysis/critique of radiographs. This course will include theory and practical applications to routine quality control check on routine, fluoroscopic, mobile, and tomographic radiography equipment. Quality control tests on ancillary equipment, such as film processor, view boxes, grids and leaded protective equipment are also included. Acceptable parameters for QC tests, as established by various regulatory agencies will also be presented. This course teaches the student to critically analyze radiographic images for image quality and diagnostic value, as well as formulating corrective action as needed. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1418 , RTE 1457

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2523C - Radiographic Procedures III

This course is a continuation of RTE 1513C covering cranium procedures and positioning. It is designed to provide the student with instruction in more complex radiographic procedures such as fluoroscopy, urinary studies, bone age, trauma, pediatrics, mobile and surgical radiography. Included is instruction in additional modalities and studies such as CT, MRI, arthography, myelography, and vascular studies. Attention will be given to the specialized equipment, contrast media, critical thinking and techniques necessary to perform these procedures. Radiographic anatomy, pathology, and critique of images are included in this course.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1513C

Corequisite(s):

RTE 1824L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2782 - Radiographic Pathology

This course is designed to introduce theories of disease causation and the pathophysiologic disorder that compromise healthy persons. Etiology, pathophysiologic responses, clinical manifestations, and radiographic appearance of alterations in body systems will be presented. Emphasis will be placed on pathological findings on diagnostic radiographic images, in both conventional and digital formats.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2844L - Radiography Clinical Education IV

This course is a continuation of RTE 1824L . The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I, II and III. The student will gain experience and develop clinical competence in specialized imaging procedures, and mobile, surgical and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1824L

Corequisite(s):

RTE 2385 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2854L - Radiography Clinical Education V

This course is a continuation of RTE 2844L . The terminal objective for this course is to prepare the student for employment as an entry level technologist. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I-IV and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2061 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2910 - Radiographic Evidence Based Practice

This course is designed to develop the student's research, writing and oral presentation skills; while completing assignments, both independently and collaboratively, with minimal direction and supervision. Methods of research, appropriate style of writing, citing work, and using APA format will be covered.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2571 - Introduction to Computed Tomography

All RTE courses must be completed with a grade of 75 or higher to progress in the Radiography Program.
This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):
RTE 1457

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Core Courses

RTE 1000 - Introduction to Radiologic Technology

This course is designed to provide an overview of the history of radiography and the role and scope of practice of the practitioner in the healthcare delivery system. Organizations, accreditation, federal agencies, regulatory agencies (including OSHA) and professional credentialing will be discussed. Content includes a fundamental background in medical law, ethics, human diversity and patient consent. The student will examine a variety of ethical issues and dilemmas found in clinical practice, as well as developing a better understanding of patients, the patient's families, and professional peers through comparison of diverse populations based on value systems, cultural and ethnic influences, communication styles and socioeconomic influences. Radiographic Medical Terminology will be covered.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Radiography Program.

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1111 - Introduction to Radiographic Patient Care

This course is designed to prepare radiography students to provide basic patient care. Basic concepts of patient care will be described, as well as infection control procedures and standard precautions. This course includes hospital specific training. Health risks, life stages, HIV/AIDs and domestic violence will be discussed. This course also includes an introduction to medical and radiographic terminology. Topics include vital signs, venipuncture, body mechanics and transport, verbal/nonverbal communication, and some pharmacology.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1418 - Radiographic Techniques I

This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiographic images. This course introduces the student to a comprehensive study and theory of the production of x-rays and primary exposure factors of radiographic imaging. The image parameters of density, contrast, recorded detail, image distortion and blur will be studied as well as ancillary devices and equipment required to produce a quality radiographic image. Film and digital imaging with related accessories will be emphasized. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1457 - Radiographic Techniques II

This course is a continuation of RTE 1418 Radiographic Techniques I , and is designed to introduce the student to various specific radiographic methods and techniques, such as automatic exposure control, fluoroscopy and image intensification, macroradiography, subtraction radiography, conventional tomography, digital image receptors, and digital image acquisition and manipulation. The student will also be instructed in calculating heat units, tube rating charts, anode cooling chart, and characteristic curves.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418 .

Corequisite(s):

RTE 1613 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1503C - Radiographic Procedures I

This course is designed to provide the Radiography student with instruction in radiographic examinations of the chest, abdomen, upper extremity and lower extremity. An introduction to medical and radiographic terminology, radiographic anatomy, and image critique are also included.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1513C - Radiographic Procedures II

This course is a continuation of RTE 1503C . It is designed to provide the student with instruction in radiographic procedures and anatomy in the distal extremities, hip region, spine, ribs, and sternum and the cranium. Critical thinking, medical and radiographic terminology, as well as image critique are emphasized.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1503C , RTE 1804L

Corequisite(s):

RTE 1814L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1613 - Radiographic Physics

This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Course content also includes the basics of magnetism, electricity, motors, generators, rectifying systems, x-ray tube and filament circuitry. Topics in electromagnetism such as self and mutual induction, high voltage transformation, and AC rectification will be emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418

Corequisite(s):

RTE 1457 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1804L - Radiography Clinical Education I

This course involves the practical application of the theories covered in RTE 1503C and RTE 1000 . Rotations provide experience with various imaging systems, protocols, and patient care. Students observe, assist and perform basic radiographic procedures (chest, abdomen and extremities) under direct supervision. This course emphasizes patient care and critical thinking. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1814L - Radiography Clinical Education II

This course is a continuation of Radiography Clinical Education I. This clinical training emphasizes lower and upper extremity. Medical and radiographic terminology, patient care, critical thinking and communication skills are emphasized. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1804L

Corequisite(s):

RTE 1513C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1824L - Radiography Clinical Education III

This course is a continuation of Radiography Clinical Education II. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I and II. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, critical thinking, imaging and exposure techniques, radiation protection application and image processing will be emphasized. This rotation covers clinical experience in all phases of fundamental radiologic procedures and image critique. Students will rotate through ancillary departments in this course.

Credit Hour(s): 4 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1814L

Corequisite(s):

RTE 2523C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2061 - Radiographic Preparation for Practice

This course is designed review information in preparation for the student to take the American Registry of Radiologic Technologist (ARRT) registry examination. The course will cover patient care and education, image production, equipment operation and maintenance, radiographic procedures and radiation protection. The student will also be given simulated registry examinations for practice and assessment purposes.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2385 - Radiographic Protection and Biology

This course is designed to provide the student with an overview of the principles of interaction of ionizing radiation with lining systems. Ionizing effects on molecules, cells, tissues and the body as a whole are presented, along with factors affecting biological response, including; acute, chronic, stochastic and non-stochastic effects. This course is also designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated, as are the various methods of monitoring radiation exposure and acceptable dose limit values.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1000 , RTE 1418 , RTE 1457 , RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2473 - Radiographic Quality Assurance

This course is designed to introduce the student to the quality management of medical imaging, including quality control procedures and image analysis/critique of radiographs. This course will include theory and practical applications to routine quality control check on routine, fluoroscopic, mobile, and tomographic radiography equipment. Quality control tests on ancillary equipment, such as film processor, view boxes, grids and leaded protective equipment are also included. Acceptable parameters for QC tests, as established by various regulatory agencies will also be presented. This course teaches the student to critically analyze radiographic images for image quality and diagnostic value, as well as formulating corrective action as needed. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1418 , RTE 1457

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2523C - Radiographic Procedures III

This course is a continuation of RTE 1513C covering cranium procedures and positioning. It is designed to provide the student with

instruction in more complex radiographic procedures such as fluoroscopy, urinary studies, bone age, trauma, pediatrics, mobile and surgical radiography. Included is instruction in additional modalities and studies such as CT, MRI, arthography, myelography, and vascular studies. Attention will be given to the specialized equipment, contrast media, critical thinking and techniques necessary to perform these procedures. Radiographic anatomy, pathology, and critique of images are included in this course.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1513C

Corequisite(s):

RTE 1824L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2782 - Radiographic Pathology

This course is designed to introduce theories of disease causation and the pathophysiologic disorder that compromise healthy persons. Etiology, pathophysiologic responses, clinical manifestations, and radiographic appearance of alterations in body systems will be presented. Emphasis will be placed on pathological findings on diagnostic radiographic images, in both conventional and digital formats.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2844L - Radiography Clinical Education IV

This course is a continuation of RTE 1824L . The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I, II and III. The student will gain experience and develop clinical competence in specialized imaging procedures, and mobile, surgical and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1824L

Corequisite(s):

RTE 2385 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2854L - Radiography Clinical Education V

This course is a continuation of RTE 2844L . The terminal objective for this course is to prepare the student for employment as an entry level technologist. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I-IV and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2061 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS

Articulation Agreement.

RTE 2910 - Radiographic Evidence Based Practice

This course is designed to develop the student's research, writing and oral presentation skills; while completing assignments, both independently and collaboratively, with minimal direction and supervision. Methods of research, appropriate style of writing, citing work, and using APA format will be covered.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2571 - Introduction to Computed Tomography

All RTE courses must be completed with a grade of 75 or higher to progress in the Radiography Program.
This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):

RTE 1457

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Core Credits Required: 58

Total Program Credits Required: 77

Total Program Credits Required: 77

Sports, Fitness and Recreation Management (AS)

Admission Program Objective Code 2480 State CIP Code 1731050700

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Core Courses

HLP 1081 - Wellness: Practice and Theory

A course designed to promote wellness through assessment, instruction and fitness programs which, if applied, will enable the individual to achieve and/or maintain a high quality of health and fitness throughout life. Based on assessment test results a physical examination by a physician may be recommended.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

PEM 1131A - Strength Training

This course is a high intensity lecture/demonstration and flexible lab hour weight training program designed to increase the size, strength, and endurance of the skeletal muscle system. Instruction includes, but is not limited to, weight training safety, etiquette, history, and nutrition. Instruction will be given in the design of progressive resistance programs to increase total body efficiency and to meet the objectives of the individual student. Students are responsible for determining fitness for training, and those with medical problems which restrict personal activities are encouraged to obtain medical clearance before enrolling in the course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PET 1000 - Introduction to Physical Education

A study of the history of physical education and sport with particular emphasis placed on present practices and trends.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PET 2622 - Care and Prevention of Athletic Injuries

____ ____ - Selected Activity Courses 4 Credit Hours

Designed to provide students with a basic knowledge of the care, prevention, and rehabilitation of injuries received during participation in physical education activities to include the effects and dangers of drug use including performance enhancing drugs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 25

Total Core Credits Required: 25

Total Core Credits Required: 25

Total Core Credits Required: 25

Technical Elective Courses

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating

system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CLP 1001 - Personal Adjustment

Psychology of adjustment, application of psychological theory for problem solving and better mental health. An examination of psychological defense mechanisms and adaptive behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CLP 2140 - Abnormal Psychology

A study of the different problems in psychopathology, including anxiety, depression, social deviance, psychosis, schizophrenia, mental retardation and general brain dysfunction of both children and adults, with emphasis on descriptive etiology, known causes, and treatments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
PSY 2012 .

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIN 1670 - Writing and Grammar

The course includes practice in writing short essays and encompasses a comprehensive review of grammar and mechanics. This course is strongly recommended for students who have completed Developmental Writing, those who want a preparation for Composition, or those who score 103-116 on the PERT.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
A passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a minimum grade of "C", or exemption from placement testing.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAT 1033A - Intermediate Algebra

This is an intermediate algebra course designed to prepare students for general education mathematics/statistics courses. This course emphasizes concepts, techniques, and applications of the following major topics; factoring, algebraic functions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, two-variable linear equations/inequalities and their graphs, systems of linear equations and inequalities, and an introduction to functions. This course may be used as an elective, but does not meet Gordon Rule requirements for B.A.S., A.A., or A.S. transfer students.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring mathematics achievement, successful completion of any required developmental mathematics coursework with a grade of "C" or better, or exemption from placement testing.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PEM 2108 - Fitness Lab

Instruction and participation in an exercise program with emphasis on muscle endurance, strength and flexibility.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

HLP 1081 or approved wellness assessment by the department chair.

Note:

This course may be taken up to four times for credit.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

THE 2000 - Theatre Appreciation

____ ____ - Selected Activity Courses (PEL, PEM, PEO) 4 Credit Hours

____ ____ - Other Approved College Credits

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

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Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Technical Elective Courses

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice.

Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CLP 1001 - Personal Adjustment

Psychology of adjustment, application of psychological theory for problem solving and better mental health. An examination of psychological defense mechanisms and adaptive behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CLP 2140 - Abnormal Psychology

A study of the different problems in psychopathology, including anxiety, depression, social deviance, psychosis, schizophrenia, mental retardation and general brain dysfunction of both children and adults, with emphasis on descriptive etiology, known causes, and treatments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
PSY 2012 .

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

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The course includes practice in writing short essays and encompasses a comprehensive review of grammar and mechanics. This course is strongly recommended for students who have completed Developmental Writing, those who want a preparation for Composition, or those who score 103-116 on the PERT.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
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Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical

managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

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Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring mathematics achievement, successful completion of any required developmental mathematics coursework with a grade of "C" or better, or exemption from placement testing.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PEM 2108 - Fitness Lab

Instruction and participation in an exercise program with emphasis on muscle endurance, strength and flexibility.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

HLP 1081 or approved wellness assessment by the department chair.

Note:

This course may be taken up to four times for credit.

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Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

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____ ____ - Selected Activity Courses (PEL, PEM, PEO) 4 Credit Hours

____ ____ - Other Approved College Credits

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Program Credits Required: 64

Core Courses

HLP 1081 - Wellness: Practice and Theory

A course designed to promote wellness through assessment, instruction and fitness programs which, if applied, will enable the individual to achieve and/or maintain a high quality of health and fitness throughout life. Based on assessment test results a physical examination by a physician may be recommended.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

PEM 1131A - Strength Training

This course is a high intensity lecture/demonstration and flexible lab hour weight training program designed to increase the size, strength, and endurance of the skeletal muscle system. Instruction includes, but is not limited to, weight training safety, etiquette, history, and nutrition. Instruction will be given in the design of progressive resistance programs to increase total body efficiency and to meet the objectives of the individual student. Students are responsible for determining fitness for training, and those with medical problems which restrict personal activities are encouraged to obtain medical clearance before enrolling in the course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PET 1000 - Introduction to Physical Education

A study of the history of physical education and sport with particular emphasis placed on present practices and trends.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PET 2622 - Care and Prevention of Athletic Injuries

____ ____ - Selected Activity Courses 4 Credit Hours

Designed to provide students with a basic knowledge of the care, prevention, and rehabilitation of injuries received during participation in physical education activities to include the effects and dangers of drug use including performance enhancing drugs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 25

Total Core Credits Required: 25

Total Core Credits Required: 25

Total Core Credits Required: 25

Technical Elective Courses

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CLP 1001 - Personal Adjustment

Psychology of adjustment, application of psychological theory for problem solving and better mental health. An examination of psychological defense mechanisms and adaptive behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CLP 2140 - Abnormal Psychology

A study of the different problems in psychopathology, including anxiety, depression, social deviance, psychosis, schizophrenia, mental retardation and general brain dysfunction of both children and adults, with emphasis on descriptive etiology, known causes, and treatments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
PSY 2012 .

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIN 1670 - Writing and Grammar

The course includes practice in writing short essays and encompasses a comprehensive review of grammar and mechanics. This course is strongly recommended for students who have completed Developmental Writing, those who want a preparation for Composition, or those who score 103-116 on the PERT.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
A passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a minimum grade of "C", or exemption from placement testing.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAT 1033A - Intermediate Algebra

This is an intermediate algebra course designed to prepare students for general education mathematics/statistics courses. This course emphasizes concepts, techniques, and applications of the following major topics; factoring, algebraic functions, radicals and

rational exponents, complex numbers, quadratic equations, rational equations, two-variable linear equations/inequalities and their graphs, systems of linear equations and inequalities, and an introduction to functions. This course may be used as an elective, but does not meet Gordon Rule requirements for B.A.S., A.A., or A.S. transfer students.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring mathematics achievement, successful completion of any required developmental mathematics coursework with a grade of "C" or better, or exemption from placement testing.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PEM 2108 - Fitness Lab

Instruction and participation in an exercise program with emphasis on muscle endurance, strength and flexibility.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

HLP 1081 or approved wellness assessment by the department chair.

Note:

This course may be taken up to four times for credit.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from

placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

THE 2000 - Theatre Appreciation

____ ____ - Selected Activity Courses (PEL, PEM, PEO) 4 Credit Hours

____ ____ - Other Approved College Credits

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

General Education

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Total General Education Credits Required: 18

Technical Elective Courses

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CLP 1001 - Personal Adjustment

Psychology of adjustment, application of psychological theory for problem solving and better mental health. An examination of psychological defense mechanisms and adaptive behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CLP 2140 - Abnormal Psychology

A study of the different problems in psychopathology, including anxiety, depression, social deviance, psychosis, schizophrenia, mental retardation and general brain dysfunction of both children and adults, with emphasis on descriptive etiology, known causes, and treatments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PSY 2012 .

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIN 1670 - Writing and Grammar

The course includes practice in writing short essays and encompasses a comprehensive review of grammar and mechanics. This course is strongly recommended for students who have completed Developmental Writing, those who want a preparation for Composition, or those who score 103-116 on the PERT.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

A passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a minimum grade of "C", or exemption from placement testing.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process,

and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAT 1033A - Intermediate Algebra

This is an intermediate algebra course designed to prepare students for general education mathematics/statistics courses. This course emphasizes concepts, techniques, and applications of the following major topics; factoring, algebraic functions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, two-variable linear equations/inequalities and their graphs, systems of linear equations and inequalities, and an introduction to functions. This course may be used as an elective, but does not meet Gordon Rule requirements for B.A.S., A.A., or A.S. transfer students.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring mathematics achievement, successful completion of any required developmental mathematics coursework with a grade of "C" or better, or exemption from placement testing.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PEM 2108 - Fitness Lab

Instruction and participation in an exercise program with emphasis on muscle endurance, strength and flexibility.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

HLP 1081 or approved wellness assessment by the department chair.

Note:

This course may be taken up to four times for credit.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's

Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

THE 2000 - Theatre Appreciation

____ ____ - Selected Activity Courses (PEL, PEM, PEO) 4 Credit Hours

____ ____ - Other Approved College Credits

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Core Courses

HLP 1081 - Wellness: Practice and Theory

A course designed to promote wellness through assessment, instruction and fitness programs which, if applied, will enable the individual to achieve and/or maintain a high quality of health and fitness throughout life. Based on assessment test results a physical examination by a physician may be recommended.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

PEM 1131A - Strength Training

This course is a high intensity lecture/demonstration and flexible lab hour weight training program designed to increase the size, strength, and endurance of the skeletal muscle system. Instruction includes, but is not limited to, weight training safety, etiquette, history, and nutrition. Instruction will be given in the design of progressive resistance programs to increase total body efficiency and to meet the objectives of the individual student. Students are responsible for determining fitness for training, and those with medical problems which restrict personal activities are encouraged to obtain medical clearance before enrolling in the course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PET 1000 - Introduction to Physical Education

A study of the history of physical education and sport with particular emphasis placed on present practices and trends.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PET 2622 - Care and Prevention of Athletic Injuries

____ ____ - Selected Activity Courses 4 Credit Hours

Designed to provide students with a basic knowledge of the care, prevention, and rehabilitation of injuries received during participation in physical education activities to include the effects and dangers of drug use including performance enhancing drugs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 25

Total Core Credits Required: 25

Total Core Credits Required: 25

Total Core Credits Required: 25

Technical Elective Courses

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

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Psychology of adjustment, application of psychological theory for problem solving and better mental health. An examination of psychological defense mechanisms and adaptive behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CLP 2140 - Abnormal Psychology

A study of the different problems in psychopathology, including anxiety, depression, social deviance, psychosis, schizophrenia, mental retardation and general brain dysfunction of both children and adults, with emphasis on descriptive etiology, known causes, and treatments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PSY 2012 .

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIN 1670 - Writing and Grammar

The course includes practice in writing short essays and encompasses a comprehensive review of grammar and mechanics. This course is strongly recommended for students who have completed Developmental Writing, those who want a preparation for Composition, or those who score 103-116 on the PERT.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring mathematics achievement, successful completion of any required developmental mathematics coursework with a grade of "C" or better, or exemption from placement testing.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PEM 2108 - Fitness Lab

Instruction and participation in an exercise program with emphasis on muscle endurance, strength and flexibility.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

HLP 1081 or approved wellness assessment by the department chair.

Note:

This course may be taken up to four times for credit.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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Total Technical Elective Credits Required: 21

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PSY 2012 .

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

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Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

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Instruction and participation in an exercise program with emphasis on muscle endurance, strength and flexibility.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

HLP 1081 or approved wellness assessment by the department chair.

Note:

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Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

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SPC 1608 - Public Speaking

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Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

THE 2000 - Theatre Appreciation

____ ____ - Selected Activity Courses (PEL, PEM, PEO) 4 Credit Hours

____ ____ - Other Approved College Credits

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Program Credits Required: 64

Total Program Credits Required: 64

Total Program Credits Required: 64

Total Program Credits Required: 64

Stage Technology (Theater & Entertainment) (CCC)

Admission Program of Study Code 6585 State CIP Code 0650050201
Students who successfully complete this certificate may be eligible to receive credits towards one of the following Theatre and Entertainment A.S. degree options:
Theater and Entertainment Technology - Acting Specialization Option (AS) (State CIP Code 1650050202)
Theater and Entertainment Technology - Costuming Specialization Option (AS) (State CIP Code 0650050201)
Theater and Entertainment Technology - Technical Theater Specialization Option (AS) (State CIP Code 0650050201)

Core Courses

TPA 1210 - Stagecraft

This course is an introduction to the principles of stagecraft: stage terminology, stage safety, instruction in proper use of shop tools, basic theater construction methods, understanding of theatrical rigging, and understanding of general background practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 1290 - Technical Theater Lab I

An introduction to technical theater and scene technology. Topics include scene drawings, safety and health, stage facility, basic crafts, two and three-dimensional scenery, scene painting, scene assembly, rigging, properties, special effects and shop organization.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPA 1210 .

TPA 2220 - Technical Theater Lab II

An introduction to stage lighting. Topics include history of stage lighting, fundamentals of light and illumination, lighting control, and

lighting practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPA 2600 - Stage Management

This course is an introduction to the study and application of stage management as it relates to the manager portfolio, the stage manager morgue, rules and regulations relating to I.A.T.S.E., rules related to contracts, competence in stage management, proper communication with directors, technical directors, designers, cast members and crews, competence in technical discussion areas and basic first aid.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total General Education Credits: 12

Technical Electives

THE 2071 - Humanities – Cinema Appreciation

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2820 - Musical Theater Workshop

An introduction to creative dramatics and children's theater. Topics span a wide range of interests; creative experience, children and theater, workshop procedure, script selection, rehearsal and performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 2232 - Introduction to Costuming Technology

An introduction to costume techniques and wardrobe practices. Topics span a wide range: costume construction techniques, problems in costumes, costume history, construction styles, sewing machine practices, seam finishes, flat pattern layout and production techniques. This course is intended to develop practical experiences in theater costumes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 1190 - Rehearsal and Performance I

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

experience in high school or a desire to learn.

TPP 1191 - Rehearsal and Performance II

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 1190 .

TPP 1192 - Rehearsal and Performance III

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 1191 .

TPP 2110 - Acting I

Through in-class performance the student will develop an understanding and proficiency of those skills of movement, voice, and expression which are required of a theatrical performer.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2111 - Acting II

Through in-class performance, the student develops an understanding and proficiency in styles of acting from classic through modern.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2110 .

TPP 2118 - Acting III

This course is a continuation of TPP 2111 , Acting II, with specialization in characterization utilizing scripted materials and scene study.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2111 .

TPP 2119 - Acting IV

This course is a continuation of TPP 2118 , Acting III, with advanced study of acting skills and script analysis with specialization in performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2118 .

TPP 2301 - Directing I

A beginning course in the study, development and training in directing for the theater. Although not a prerequisite, students are encouraged to take Acting I and II before Directing I.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2302 - Directing II

Directing II is a continued study of the basic principles of directing for the theater with emphasis in the continued study, development and training in directing for the theater.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2301 .

Total Technical Elective Credits Required: 5

Total Program Credits Required: 17

Theater and Entertainment Technology - Acting Specialization Option (AS)

Admission Program Objective Code 2585A State CIP Code 1650050202
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Stage Technology (State CIP Code 0650050201).

Core Courses

HUM 2920 - Humanities Colloquium

Humanities Colloquium is a lab designed to introduce students to critical visual and listening skills to become an intelligent arts consumer. Initial lecture sessions are devoted to discussions of the elements of analysis of art works, music pieces, theater performances, and dance presentations. Students will be required to attend selected NWFSC Visual and Performance Arts

presentations and to write a short critical review of each. Topics may vary.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

placement test may be required.

MVV 1211 - Applied Music – Voice I (can be completed four times for credit)

Private instruction in voice, as a secondary instrument, consisting of one half-hour session per week, with a minimum of one hour daily practice.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

THE 2000 - Theatre Appreciation

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature

Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

TPA 1210 - Stagecraft

This course is an introduction to the principles of stagecraft: stage terminology, stage safety, instruction in proper use of shop tools, basic theater construction methods, understanding of theatrical rigging, and understanding of general background practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 1290 - Technical Theater Lab I (Scenic)

An introduction to technical theater and scene technology. Topics include scene drawings, safety and health, stage facility, basic crafts, two and three-dimensional scenery, scene painting, scene assembly, rigging, properties, special effects and shop organization.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPA 2220 - Technical Theater Lab II (Lighting)

An introduction to stage lighting. Topics include history of stage lighting, fundamentals of light and illumination, lighting control, and lighting practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPP 2110 - Acting I

Through in-class performance the student will develop an understanding and proficiency of those skills of movement, voice, and expression which are required of a theatrical performer.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 22

Technical Elective Courses

THE 2071 - Humanities – Cinema Appreciation

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2820 - Musical Theater Workshop

An introduction to creative dramatics and children's theater. Topics span a wide range of interests; creative experience, children and theater, workshop procedure, script selection, rehearsal and performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 2276C - Entertainment Technology - Crafts

This course presents the practices and principles of advanced woodworking, welding, smithing, casting, ceramics, plaster work, fiberglass and plastic technology for the entertainment industry. State of the art tool technology, shop and field practice, health and safety standards will be emphasized. These crafts are entertainment industry oriented that will use items created in a realized production.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPP 1190 - Rehearsal and Performance I

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

experience in high school or a desire to learn.

TPP 1191 - Rehearsal and Performance II

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 1190 .

TPP 1192 - Rehearsal and Performance III

____ ____ - Other Approved College Credits_

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 1191 .

TPP 2111 - Acting II

Through in-class performance, the student develops an understanding and proficiency in styles of acting from classic through modern.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 2110 .

TPP 2118 - Acting III

This course is a continuation of TPP 2111 , Acting II, with specialization in characterization utilizing scripted materials and scene study.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 2111 .

TPP 2119 - Acting IV

This course is a continuation of TPP 2118 , Acting III, with advanced study of acting skills and script analysis with specialization in performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 2118 .

Total Technical Elective Credits Required: 24

Total Program Credits Required: 64

Theater and Entertainment Technology - Costuming Specialization Option (AS)

Admission Program Objective Code 2585E State CIP Code 1650050202
Students who successfully complete selected courses from this program of study may be eligible to receive the Stage Technology (Theater & Entertainment) (CCC) certificate (State CIP Code 0650050201).

Core Courses

THE 2000 - Theatre Appreciation

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature

Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-

Curriculum requirement.

THE 2930 - Theater – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

TPA 1210 - Stagecraft

This course is an introduction to the principles of stagecraft: stage terminology, stage safety, instruction in proper use of shop tools, basic theater construction methods, understanding of theatrical rigging, and understanding of general background practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 1290 - Technical Theater Lab I (Scenic)

An introduction to technical theater and scene technology. Topics include scene drawings, safety and health, stage facility, basic crafts, two and three-dimensional scenery, scene painting, scene assembly, rigging, properties, special effects and shop organization.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPA 2220 - Technical Theater Lab II (Lighting)

An introduction to stage lighting. Topics include history of stage lighting, fundamentals of light and illumination, lighting control, and lighting practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPA 2232 - Introduction to Costuming Technology

An introduction to costume techniques and wardrobe practices. Topics span a wide range: costume construction techniques, problems in costumes, costume history, construction styles, sewing machine practices, seam finishes, flat pattern layout and production techniques. This course is intended to develop practical experiences in theater costumes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 1190 - Rehearsal and Performance I

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

experience in high school or a desire to learn.

TPP 2110 - Acting I

Through in-class performance the student will develop an understanding and proficiency of those skills of movement, voice, and expression which are required of a theatrical performer.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2930 - Theater Performance – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

Total Core Credits Required: 30

Technical Elective Courses

THE 2071 - Humanities – Cinema Appreciation

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2820 - Musical Theater Workshop

An introduction to creative dramatics and children's theater. Topics span a wide range of interests; creative experience, children and theater, workshop procedure, script selection, rehearsal and performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 2600 - Stage Management

This course is an introduction to the study and application of stage management as it relates to the manager portfolio, the stage manager morgue, rules and regulations relating to I.A.T.S.E., rules related to contracts, competence in stage management, proper communication with directors, technical directors, designers, cast members and crews, competence in technical discussion areas and basic first aid.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 1191 - Rehearsal and Performance II

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 1190 .

TPP 1192 - Rehearsal and Performance III

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 1191 .

TPP 2111 - Acting II

Through in-class performance, the student develops an understanding and proficiency in styles of acting from classic through modern.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 2110 .

TPP 2118 - Acting III

This course is a continuation of TPP 2111 , Acting II, with specialization in characterization utilizing scripted materials and scene study.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPP 2111 .

TPP 2301 - Directing I

____ ____ Other Approved College Credits_

A beginning course in the study, development and training in directing for the theater. Although not a prerequisite, students are encouraged to take Acting I and II before Directing I.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Technical Elective Credits Required: 16

Total Program Credits Required: 64

Theater and Entertainment Technology - Dance Specialization Option (AS)

Admission Program Objective Code 2585B State CIP Code 1650050202

Core Courses

DAA 1100 - Modern Dance (can be completed four times for credit)

This beginning dance class serves as an introduction to the art of contemporary dance. It includes instruction and practice in basic modern dance techniques, improvisation, dance forms and brief historical overview.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring,, Summer) Note:

This course may be taken up to four times for credit.

DAA 1101 - Intermediate Modern Dance (can be completed four times for credit)

This course includes a continued analysis of the modern dance at an intermediate level. Instruction and practice in specific contemporary dance techniques and performance qualities will be stressed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

DAA 1200 - Beginning Ballet (can be completed four times for credit)

This beginning dance course is designed to serve as an introduction to the tradition and discipline of the art of classical ballet. Physical development of the body as an expressive instrument for ballet movement will be stressed as strength, flexibility, balance, alignment, agility, turnout, control, elevation and sensitivity to line are studied.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

DAA 1201 - Intermediate Ballet (can be completed four times for credit)

Intermediate Ballet is designed to train the student in the tradition of the art of the classical ballet beyond the basics. Continued development of the body as an expressive instrument for ballet movement will be stressed as students reach the proficiency level necessary to perform the more complicated steps of an intermediate class.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

DAA 2202 - Advanced Ballet (can be completed four times for credit)

Students enrolling in Advanced Ballet must have reached a high level of physical strength, mastery of skills, and technical knowledge in order to be eligible for placement in this section. Nuances of ballet performance and classical repertoire will be stressed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

DAA 1201 and/or appropriate level of competency approved by the instructor.

Note:

This course may be taken up to four times for credit.

DAA 2610 - Dance Composition

An introduction and practice in the application of compositional tools encourages the student to explore and compose dance. By studying the body's movement in time and space the student will improve technical skills, develop improvisation and choreographic skills and enhance overall dance performance. Previous dance experience is helpful.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Note:

This course may be taken up to four times for credit.

DAA 2683 - Performance Dance, (Repertory and/or Original Choreography) (can be completed

two times for credit)

This course includes the continuation of study and participation in all rehearsals of selected works of dance repertory and/or original choreography culminating in public performance.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):

Demonstration of competency determined by audition.

Note:

This course may be taken up to four times for credit.

Total Core Credits Required: 24

Technical Elective Courses

DAA 1500A - Beginning Jazz (can be completed four times for credit)

This course includes a brief history of the jazz dance and instruction and practice in jazz dance techniques exploring popular dance idioms.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

DAA 1501 - Intermediate Jazz Dance (can be completed four times for credit)

Those students ready to move at the intermediate level in jazz will find this course beneficial for the improvement of jazz dance performance techniques.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:

This course may be taken up to four times for credit.

DAA 1520 - Beginning Tap (can be completed four times for credit)

This course includes instruction in tap dance technique and the introduction of time steps commonly used in musical theater auditions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:

This course may be taken up to four times for credit.

DAA 1580 - Musical Theater Dance I (can be completed four times for credit)

This beginning course covers the study of musical theater dance techniques and styles as related to a specific performance experience, usually Creative Dramatics. Students must participate in designated rehearsals and performances.

Credit Hour(s): 1 Credit Hour When Offered: (Summer) Prerequisite(s):

level of competency determined by audition.

Note:

This course may be taken up to four times for credit.

DAA 1681 - Dance Ensemble (can be completed four times for credit)

The student shall participate in the preparation and performance of original dance compositions to include Dance Line and Show Choir performances.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

level of competency determined by audition.

Note:

This course may be taken up to four times for credit.

DAA 2220 - Pointe (can be completed four times for credit)

The student must already have mastered intermediate/advanced ballet terminology and movement vocabulary in order to be prepared for the physical demands of dancing on pointe.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

DAA 1201 and/or appropriate level of competency approved by the instructor.

Note:

This course may be taken up to four times for credit.

DAA 2581 - Musical Theater Dance II (can be completed four times for credit)

The continued study of Musical Theater dance techniques and styles as related to a specific performance experience, usually Summer Ensemble Workshop. Students must participate in rehearsals and performances.

Credit Hour(s): 1 Credit Hour When Offered: (Summer) Prerequisite(s):

level of competency determined by audition.

Note:

This course may be taken up to four times for credit.

DAN 1750 - Dance Conditioning (can be completed four times for credit)

Dance Conditioning is an excellent course in which to begin your dance training. It is designed to improve fundamentals for the beginning/intermediate student through daily practice in floor work, yoga, and Pilates exercises. This movement class will get you ready to meet the challenges of other dance classes by toning, strengthening and preparing the body to move.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:

This course may be taken up to four times for credit.

TPA 1210 - Stagecraft

This course is an introduction to the principles of stagecraft: stage terminology, stage safety, instruction in proper use of shop tools, basic theater construction methods, understanding of theatrical rigging, and understanding of general background practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 2220 - Technical Theater Lab II

____ ____ - Other Approved College Credits (DAA, DAN)_

An introduction to stage lighting. Topics include history of stage lighting, fundamentals of light and illumination, lighting control, and lighting practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPA 2232 - Introduction to Costuming Technology

An introduction to costume techniques and wardrobe practices. Topics span a wide range: costume construction techniques, problems in costumes, costume history, construction styles, sewing machine practices, seam finishes, flat pattern layout and production techniques. This course is intended to develop practical experiences in theater costumes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Technical Elective Credits Required: 22

Total Program Credits Required: 64

Theater and Entertainment Technology - Music Theater Specialization Option (AS)

Admission Program Objective Code 2585C State CIP Code 1650050202

Core Courses

HUM 2920 - Humanities Colloquium

Humanities Colloquium is a lab designed to introduce students to critical visual and listening skills to become an intelligent arts consumer. Initial lecture sessions are devoted to discussions of the elements of analysis of art works, music pieces, theater performances, and dance presentations. Students will be required to attend selected NWFSC Visual and Performance Arts presentations and to write a short critical review of each. Topics may vary.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
placement test may be required.

MUT 1121 - Music Theory I - Ear Training and Sight Singing

A study of the fundamentals of basic musicianship, music notation, understanding of simple rhythms, key situations, intervals, ear training, dictation, sight singing, major and minor scales, intervals, triads, chords, polyphonic composition and elementary keyboard work.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 1001 or instructor permission.

Note:
▲Technology-Across-the-Curriculum Course.

MUT 1122 - Music Theory II - Ear Training and Sight Singing

A continuation of MUT 1121 . Basic musicianship, writing and reading of music, ear training, dictation, sight singing will be studied, as well as major and minor scales, intervals, triads, seventh chords, inversions, cadences, periods and progressions in all keys. Two, three and four part chords and polyphonic composition.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 1121 .

Note:
▲Technology-Across-the-Curriculum Course.

MUT 2126 - Music Theory III – Ear Training and Sight Singing

A continuation of MUT 1121 and MUT 1122 . The harmonization and modulation of melodies through the use of nondominant harmony and the study of sequence writing. Incorporates keyboard harmony plus sight reading of chromatic melodies, large intervals, and advanced rhythms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 1122 .

MUT 2127 - Music Theory IV – Ear Training and Sight Singing

The continued study of harmonization of melodies, sequence writing, sight reading, intervals, advanced rhythms and structures.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 2126 .

MVK 1211 - Applied Music – Piano I (can be completed four times for credit)

Private instruction in piano, as secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

MVK 2221 - Applied Music – Piano II (can be completed four times for credit)

MUN ____ - Music Ensembles 4 Credit Hours
Private instruction in piano, as a secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVK 1211.

Note:
This course may be taken up to four times for credit.

Total Core Credits Required: 21

Technical Elective Courses

MUN 1000 - Summer Ensemble Workshop

An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical

physical styles will be studied and performed. Students participating in Summer Ensemble Workshop will be expected to participate in several scheduled performances.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

experience in high school or a desire to learn.

MUN 1001 - Summer Ensemble Workshop II

An ensemble workshop and performance to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop II will be expected to participate in several scheduled performances.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

MUN 1000 .

MUN 1002 - Summer Ensemble Workshop III

An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical physical styles will be studied. Students participating in Summer Ensemble Workshop will be expected to participate in several scheduled performances.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

MUN 1000 , MUN 1001 .

MUT 1001 - Fundamentals of Music

A pre-theory course for the music major, non-music major, or for the elementary education major.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

MUT 1641 - Jazz Improvisation I

A course designed to introduce the student to the concepts of Jazz Improvisation. Through active participation the student will develop the basic skills necessary to become a competent jazz soloist.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MUT 1121 .

Note:

This course may be taken up to two times for credit.

MUT 2351 - Introduction to Jazz Theory/Arranging

A lecture-demonstration-workshop, approach to jazz/ pop arranging open to any student who wants to begin or understand composing/arranging. Studies include jazz/pop harmonies, arranging fundamentals and techniques, and the use of jazz/pop instrumentation. Workshop practices include assigned arrangements with the arrangements played by the jazz ensemble, and other audio demonstrations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 1122 .

MUT 2642 - Jazz Improvisation II

MUN ____ - Music Ensembles (as needed) 4-12 Credit Hours
MV_ ____ - Applied Music 4-12 Credit Hours
DAA ____ - Ballet, Jazz, Modern 4-12 Credit Hours
____ ____ - Other Approved College Credits_

A continuation of MUT 1641 Jazz Improvisation I. This course is designed to further develop the skills needed to become a competent soloist in the jazz idiom.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MUT 1641 .

Note:

This course may be taken up to two times for credit.

Total Technical Elective Credits Required: 25

Total Program Credits Required: 64

Theater and Entertainment Technology - Technical Theater Specialization Option (AS)

Admission Program Objective Code 2585D State CIP Code 1650050202
Students who successfully complete selected courses from this program of study may be eligible to receive the Stage Technology (Theater & Entertainment) (CCC) certificate (State CIP Code 0650050201).

Core Courses

HUM 2920 - Humanities Colloquium

Humanities Colloquium is a lab designed to introduce students to critical visual and listening skills to become an intelligent arts consumer. Initial lecture sessions are devoted to discussions of the elements of analysis of art works, music pieces, theater performances, and dance presentations. Students will be required to attend selected NWFSC Visual and Performance Arts presentations and to write a short critical review of each. Topics may vary.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

placement test may be required.

MUM 1620 - Audio and Acoustic Fundamentals

Audio and Acoustic Fundamentals explores the basics of audio systems and equipment and the acoustical environment in which they are used. Emphasis is placed on equipment terminology, function and acoustical listening. The two basic fundamentals are summed together to begin laying the basic foundation required to operate audio and recording equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

THE 2000 - Theatre Appreciation

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature

Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

TPA 1210 - Stagecraft

This course is an introduction to the principles of stagecraft: stage terminology, stage safety, instruction in proper use of shop tools, basic theater construction methods, understanding of theatrical rigging, and understanding of general background practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 1290 - Technical Theater Lab I

An introduction to technical theater and scene technology. Topics include scene drawings, safety and health, stage facility, basic crafts, two and three-dimensional scenery, scene painting, scene assembly, rigging, properties, special effects and shop organization.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPA 2220 - Technical Theater Lab II

An introduction to stage lighting. Topics include history of stage lighting, fundamentals of light and illumination, lighting control, and lighting practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPA 2600 - Stage Management

This course is an introduction to the study and application of stage management as it relates to the manager portfolio, the stage manager morgue, rules and regulations relating to I.A.T.S.E., rules related to contracts, competence in stage management, proper communication with directors, technical directors, designers, cast members and crews, competence in technical discussion areas and basic first aid.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2110 - Acting I

Through in-class performance the student will develop an understanding and proficiency of those skills of movement, voice, and expression which are required of a theatrical performer.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Total Core Credits Required: 25

Technical Elective Courses

ART 1203C - Three-Dimensional Design

An introductory course, both theoretical and applied, dealing with principles of organization and the elements of design in a 3-dimensional format. Various materials, tools, and surfaces are used to explore 3-D form. This is a foundation course. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1300C - Drawing I

Basic drawing course covering different drawing media, line, form, shape, value and spatial relationships. Drawing problems involving a variety of subject matter will be explored. Emphasis is on value, drawing techniques, spatial relationships between shapes and composition. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

THE 2071 - Humanities – Cinema Appreciation

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2820 - Musical Theater Workshop

An introduction to creative dramatics and children's theater. Topics span a wide range of interests; creative experience, children and theater, workshop procedure, script selection, rehearsal and performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 2232 - Introduction to Costuming Technology

An introduction to costume techniques and wardrobe practices. Topics span a wide range: costume construction techniques, problems in costumes, costume history, construction styles, sewing machine practices, seam finishes, flat pattern layout and production techniques. This course is intended to develop practical experiences in theater costumes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 2276C - Entertainment Technology - Crafts

This course presents the practices and principles of advanced woodworking, welding, smithing, casting, ceramics, plaster work, fiberglass and plastic technology for the entertainment industry. State of the art tool technology, shop and field practice, health and safety standards will be emphasized. These crafts are entertainment industry oriented that will use items created in a realized production.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPA 1210 .

TPP 1190 - Rehearsal and Performance I

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
experience in high school or a desire to learn.

TPP 1191 - Rehearsal and Performance II

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 1190 .

TPP 1192 - Rehearsal and Performance III

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 1191 .

TPP 2111 - Acting II

____ ____ Other Approved College Credits_

Through in-class performance, the student develops an understanding and proficiency in styles of acting from classic through modern.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2110 .

Total Technical Elective Credits Required: 21

Total Program Credits Required: 64

UNIX/Linux System Administrator (CCC)

Admission Program of Study Code 6143 State CIP Code 0511100122

Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Technical Requirements

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C *

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the

operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Credits Required: 24

Web Development Specialist (CCC)

Admission Program of Study Code 6167 State CIP Code 0511080103
Students who successfully complete this certificate may be eligible to receive credits towards the Internet Services Technology (AS) degree (State CIP code 1511080102).

Core Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000

Note:
▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

COP 2030 - Programming In Python

An Introduction to Python programming language using microcomputers. Topics include Python basics, use of Python control and data structures, use of Python function, Python 110, and implementation of basic programming tasks.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000

Note:
▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 2820 .

Note:
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 15

Total Core Credits Required: 15

Technical Elective Courses

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students’ understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 .

Note:
▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 , COP 2654

Note:
▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 , COP 2660 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2800 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):
CGS 2541 and COP 2840 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Total Program Credits Required: 36

Technical Elective Courses

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2654

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2660 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2800 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 and COP 2840 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Technical Elective Courses

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2654

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2660 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2800 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):
CGS 2541 and COP 2840 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:
▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Technical Elective Courses

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 .

Note:
▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 , COP 2654

Note:
▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 , COP 2660 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2800 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):
CGS 2541 and COP 2840 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

Total Technical Elective Credits Required: 21

Total Technical Elective Credits Required: 21

Core Courses

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2030 - Programming In Python

An Introduction to Python programming language using microcomputers. Topics include Python basics, use of Python control and data structures, use of Python function, Python 110, and implementation of basic programming tasks.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical

experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 2820 .

Note:
▲Technology-Across-the-Curriculum Course.

Total Core Credits Required: 15

Total Core Credits Required: 15

Total Program Credits Required: 36

AA Degree General Education Requirements

Associate in Arts students must complete 60 college credits to complete the degree; 36 of these credits must be general education credits distributed across five subject area categories. A student must satisfy the required number of credits in each category. No more than 1 credit may be selected from the list of General Education Electives (category F).
The remaining 24 elective credits should be selected in consultation with an advisor, who will assist the student in selecting college credits most advantageous to the student's educational goals.

Courses Meeting General Education Requirements

A. Communications Skills: 6

ENC 1101 - English Composition I ▲

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

▲ Technology-Across-the Curriculum Course

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of ENC 1101 or an equivalent course with a grade of “C” or better.

B. Mathematics: 6-7

MAC 1105 - College Algebra

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

MAC 1114 - Trigonometry

This is the second course in a Pre-calculus sequence which includes the following topics: definitions, graphs, and properties of the six trigonometric functions and their inverses; trigonometric identities; solving trigonometric equations; solving right and oblique triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

MAC 1140 - Pre-Calculus Algebra

This is the first course in a two-course Pre-calculus sequence which includes the following: equations and inequalities; linear, quadratic, logarithmic and exponential functions and relations; systems of equations; matrices and determinants, mathematical proof techniques, including mathematical induction; binomial theorem; sequences and series; and applications of algebraic techniques in the real world. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1105 with a grade of “C” or better, or equivalent; or appropriate placement score.

MAC 1147 - Pre-Calculus Algebra/Trigonometry

This course reviews algebra and trigonometry. Topics include the following: polynomial, rational, exponential, logarithmic, and trigonometric functions; inverse functions; trigonometric identities and equations; solutions of triangles; vector algebra; topics from analytical geometry; sequences; series; mathematical induction; and the binomial theorem. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

appropriate placement score and high school trigonometry with a "B" or better; or special permission of the Mathematics Department.

MAC 2233 - Business Calculus

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

MAC 2311 - Calculus I

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L’Hopital’s Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle’s theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of “C” or better or equivalent; or appropriate placement score.

MAC 2312 - Calculus II

This is the second course in a three-course sequence. The course covers the following: techniques for finding areas, volumes, arc lengths and surface areas, methods of integration, including integration by parts, trigonometric substitution, and partial fractions, improper integrals, conic sections, graphing and area in polar coordinates, infinite sequences and series, tests for absolute and conditional convergence of series, and power series. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2311 with a grade of “C” or better or equivalent.

MAC 2313 - Calculus III

This is the third course in a three-course sequence. The course includes the following topics: vectors, lines and planes in space, quadric surfaces, vector-valued functions and motion in space, functions of two or more variables, partial derivatives, gradients, directional derivatives, and their applications, multiple integrals in rectangular, cylindrical, and spherical coordinates, and their applications, line integrals, and surface integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2312 with a grade of “C” or better or equivalent.

MAD 2104 - Introduction to Discrete Mathematics

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of “C” or better in MAC 1140 or a course in programming.

MAP 2302 - Differential Equations

This course provides an introduction to ordinary differential equations with an emphasis on first and second order linear equations and applications. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

either completion of MAC 2313 with a "C" or better or concurrent enrollment in MAC 2313 . Equivalent courses from other institutions may be used to meet the prerequisite.

MAS 2103 - Linear Algebra

This is an introductory course in Linear Algebra intended to give students enough insight to enable successful pursuit of more abstract mathematics courses. This course includes the study of matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, eigenvalues, and eigenvectors. Exercises using MATLAB will be required. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

completion of MAC 2312 with a grade or “C” or better, or equivalent.

MGF 1106 - Mathematics for Liberal Arts I

This course is designed for those students requiring only general education mathematics courses. It includes systematic counting, probability, statistics, history of mathematics, geometry, sets, and logic. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MGF 1107 - Mathematics for Liberal Arts II

This course is designed for those students requiring only general education mathematics courses. Topics include numeration and mathematical systems, number theory, linear and exponential growth, history of mathematics, voting techniques, graph theory, and consumer mathematics. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MTG 2206 - College Geometry

This course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve the following: line segments, angles, triangles, polygons, parallel and perpendicular lines, slopes of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems. Lines and other geometric figures are graphed in the rectangular coordinate system. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

completion of MAC 1105 or equivalent with a “C” or better.

STA 2023 - Statistics

or

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

STA 2122 - Statistical Applications

This course is designed for students pursuing psychology, education, and some specialized degrees. The course is an introduction to understanding and applying statistical concepts. Topics include: descriptive statistics, probability distributions, one and two sample hypothesis testing, confidence interval estimation, correlation, regression, and analysis of variance. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

C. Humanities: 6

I. Speaking-Across-The-Curriculum (SATC) Humanities

ARH 2050 - Art History: Pre-Renaissance †

Survey of significant contributions in art from prehistoric through Renaissance. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism †

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful

completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2060 - Architecture History †

Survey of significant contributions in architecture from prehistoric to modern times. Architecture will be considered in terms of stylistic qualities, structural type, and intended usage. Topics will be addressed according to historical content, societal background, and geographical location. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2402 - Art History: Modern Art †

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 1020 - Humanities – Introduction †

A chronological survey of techniques and forms related to art, dance, film, literature, music, philosophy, religion and theater. Art works and selected readings are utilized as much as possible. The course includes Writing-Across-the-Curriculum and Speaking-Across-the-Curriculum. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 2250 - Humanities – A Contemporary Perspective †

This course is an integrated study of the artistic, cultural, philosophic, religious, social, and technological influences that shape modern western cultures in the modern era. The focus will begin with the 20th century and follow, chronologically, the issues of the modern era. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

MUL 1010 - Music Appreciation †

Designed to develop a more intelligent understanding of and appreciation of music. By methodically surveying the main periods of Western Art Music from the Medieval Period through present day, this class will bring about an awareness of music as a vital source in human life, and will aid in developing positive attitudes toward culture and the fine arts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet AA Gordon Rule requirements for general education, a minimum grade of "C" is required. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the- Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

PHI 2600 - Introduction to Ethics †

Ways to frame and resolve ethical issues are studied. Major historical theories including consequentialism, deontology, and virtue ethics are presented in moral arguments and narratives. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2071 - Humanities – Cinema Appreciation †

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2000 - Theatre Appreciation †

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for

general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature †

Courses listed with this symbol have an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the General Education Requirements requirement.
Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

II. General Humanities

AML 2010 - American Literature I

A course in American Literature from the pre-Colonial period to the Civil War. This course may be used for Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

AML 2020 - American Literature II

A course in American Literature from Civil War to present. This course may be used for Humanities credit. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 . (Note: AML 2010 is not a prerequisite for this course)

ARH 1000 - Art Appreciation

This course offers a study in the basic concepts of art, including function, style and structure with emphasis on the interaction of medium and meaning and problems of art criticism. This class does not fulfill the art history requirements for art majors, but compliments the art major's course of study as an elective. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

ENL 2012A - English Literature I

A study of English literature from the Old English period, Beowulf, through the late Eighteenth century, the Age of Enlightenment, focusing on major works and their authors with an emphasis upon the literature as a significant reflection of and contribution to the political, cultural, social, religious, and economic milieu of each age. This course may be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

ENL 2022 - English Literature II

A study of English literature from the Romantics through the modern era, focusing on major works and their authors with an emphasis upon the literature as a significant reflection of and contribution to the political, cultural, social, religious, and economic milieu of each age. This course may be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet Gordon Rule requirements for general education, a minimum grade of "C" is required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 . (Note: ENL 2012A is not a prerequisite for this course)

HUM 2700 - Humanities – Foreign Study

A variable humanities content course designed to allow students first-hand learning experiences outside the United States. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2090 - Contemporary Literature

Studies in contemporary literature, focusing on comments on modern man. May be used as Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2100 - World Literature I

Designed to encourage students to know and appreciate the great literature that helps to mold their thinking and everyday living. Includes, without regard to national origin, those masterpieces of world literature, from antiquity through the Renaissance, that reflect cultural and intellectual heritage. May be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet the Gordon Rule requirements for general education, a minimum grade of "C" is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2120 - World Literature II

Designed to encourage students to know and appreciate the great literature that helps to mold their thinking and everyday living. Includes, without regard to national origin, those masterpieces of world literature, from the Renaissance to the present, that reflect cultural and intellectual heritage. May be used as a humanities credit. This is a Gordon Rule writing course and is part of the

college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ENC 1101 . (Note: LIT 2100 is not a prerequisite for this course)

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

PHI 2010 - Introduction to Philosophy

Central concepts of philosophy are developed, including a description of the main philosophical problems involved through ancient, medieval, and contemporary thought. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

REL 2300 - Introduction to World Religions

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

This course will explore the principles and practices of the world's major religious traditions. The religions will be studied in their historical and contemporary forms. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

E. Social Sciences: 6

I. Gordon Rule Social Sciences

AMH 2010 - American History I

American History to 1877; describes the social, political, and economic development of the American people against the geographical background of the New World. Particular emphasis on American intellectual and political thought leading to the emergence of basic American character, ideas and attitudes. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

AMH 2020 - American History II

American History from 1877, concentrating on industrial growth, the rise of corporate business, big labor, and government organization. Modification of basic American character and ideas as a continual historical process. This is a Gordon Rule writing

course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

POT 1002 - History and Ideas of Political Science

This course reviews classical ideas, political theory and institutions from a historical and comparative viewpoint. It examines the rise of the State, its organization, economic systems, the use of force, and persuasion. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1012 - World Civilization I

A study of world history from 4000 BC to 1650 AD as it relates to the development of western civilization. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1022 - World Civilization II

A study of history from 1650 AD to the present as it relates to the development of the modern world. History is analyzed in terms of

social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 2040 - 20th Century

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

International political and historical affairs in the 20th century through the institutions and organizations of the Western State System. Attention is on international cooperation, decision making, force, world resources, and world political geography by the selection of a specific problem. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

II. General Social Sciences

ANT 2000 - Introduction to Anthropology

Introduction to the fundamental principles, concepts, methods and theories in Anthropology. Includes a brief introduction to the subdisciplines of anthropology: cultural anthropology, biological anthropology, archaeology, and linguistics. A cross-cultural perspective will be paramount in the study of anthropology.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ANT 2100 - Introduction to Archaeology

Introduction to the fundamental principles, methods, and theories in archaeology. Includes a history of the development of archaeology, and examination of the nature of archaeological data and research, an introduction to archaeological data and analysis, and an examination of approaches to synthesis and interpretation. North and South American archeology is studied, but non-western examples are also studied to enhance an understanding of the development of the discipline in Europe and the Americas.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the

regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SYG 2000 - Sociology

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

D. Natural Sciences: 11-12

I. Biological Science: (Choose One)

BOT 1010C - Botany

This course covers the structure and function of seed plants, basic information on plant metabolism, including photosynthesis and water relations, and a survey of lower plants, algae and fungi. It introduces basic concepts of ecology and plant geography and stresses the importance of plants to humans. Laboratory sessions illustrate concepts from the lecture using specimens, microscope slides and field trips.

Credit Hour(s): 4 Credit Hours When Offered: (Spring)

BSC 1005 - General Biology

The principles of biology are included. Human Biology is emphasized. Man's effect on the environment is considered wherever appropriate. (NO LABORATORY — Not for majors in Biology).

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1010C - Principles of Biology I

A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

high school biology and chemistry or CHM 1020 and eligibility to enroll in MAC 1105 .

BSC 1011C - Principles of Biology II

This course is a continuation of BSC 1010C . It provides an overview of the history of life on Earth, a summary of the concepts of phylogeny and classification, and a survey of organisms with emphasis on plants and animals. Structure, evolution, taxonomy, and ecology of the major phyla will be included. This course is required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

BSC 1010C .

BSC 1085C - Anatomy and Physiology I

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ZOO 1010C - Zoology

An introduction to the major concepts of animal life, to include the structure, taxonomy, evolutionary relationships, and natural history of the major animal groups.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

II. Physical Science: (Choose One)

AST 1002 - Descriptive Astronomy

This non-lab one-semester course is designed to meet the general education requirements in physical science for non-science majors and for students in related scientific fields needing a scientific elective. The course includes topics in planetary astronomy, the sun and stellar evolution, galaxies, and cosmology. Also covered are basic physical laws, light, and telescopes. Exercises require only basic math with some very limited algebra.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

CHM 1020 - Chemical Science

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

CHM 1032C - General Chemistry for Life Sciences

This course is a one-semester introduction to chemistry especially appropriate for those pursuing a degree for a career in an allied health science field, although open to all students. Topics include atomic theory, bonding, nomenclature, gases, acids and bases, stoichiometry, and solutions, with an additional emphasis on reaction rates, equilibria, organic and biochemistry, and organic and biomolecules and their roles and functions in living organisms.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MAT 1033A or appropriate placement test scores.

CHM 1045C - College Chemistry I

Quantitative approach to modern theoretical and descriptive chemistry with appropriate development of laboratory technique. Includes symbols, formulas, equations, atomic structure, bonding, states of matter, stoichiometry, thermo-chemistry, solutions, colloids, molecular orbitals, periodicity and properties. A two semester sequence in general chemistry with laboratory exercises and demonstrations. University transfer credit.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MAC 1105 required; high school Chemistry or Physics, CHM 1020 or PHY 1020 advised.

CHM 1046C - College Chemistry II

Continuation of CHM 1045C . Includes kinetics, chemical equilibrium, acids and bases, thermo-dynamics, non-metals and their compounds, electrochemistry, redox, the atmosphere, hydrocarbons, biochemistry, nuclear chemistry, coordination compounds, and qualitative analysis.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1045C .

ESC 1000 - Earth Science

This course provides an introduction to materials, processes, and interactions of Earth’s global environments – the lithosphere (solid earth), hydrosphere (water earth), atmosphere (gaseous earth), and biosphere (living earth). It also includes a survey of sciences pertaining to the Earth, including basic astronomy, meteorology, oceanography, and geology.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 1001C - Environmental Science

A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

GLY 2010C - Principles of Geology I

Survey of the composition and dynamic processes of the solid Earth. Topics include planetary geology, mineralogy and petrology, volcanism, surface environments and processes (ocean floor, coastlines, rivers, karst, glaciers, deserts), seismology, surface deformation, Earth’s interior, plate tectonics, and mountain formation. Laboratory exercises in mineral and rock identification, interpretation of geological landforms using topographic maps, earthquakes, and basic field methods. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

GLY 2100C - Principles of Geology II

Survey of the physical and biological history of the Earth. Course is divided into two parts. First is a review of common minerals, rocks, and fossils; the use of stratified sedimentary rocks to reconstruct past environments and climates; and the theory of plate tectonics. Second is an overview of the origin and early evolution of the Earth, tectonic formation of continents and oceans, and life through time (first appearance of life, early life in the ocean, Age of Dinosaurs, the Great Ice Age, and the appearance of the first humans). Field and laboratory work in mineral, rock, and fossil identification, description of stratigraphic sections in the field, and geologic map construction and interpretation. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

ISC 1003 - Natural Disasters – Causes, Consequences, Human Response

This interdisciplinary course investigates natural catastrophic events, such as earthquakes, volcanic eruptions, tsunamis, hurricanes and floods. This class will use an environmental studies approach to examine how modern society exacerbates the damage caused by these natural phenomena and methods to mitigate human suffering. The student will gain an appreciation of humankind’s relationship to the natural environment.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

MET 1010 - Introduction to Meteorology

Structure of the atmosphere, weather processes, systems and phenomena; climate and climatic change, and economic impact of weather.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

OCE 1001C - Oceanography

A survey of the physics, chemistry, geology and biology of the oceans. Interrelationships between the atmosphere and oceans, methods of measurement and research, processes of coastal change and marine conservation. May be used to satisfy A.A. requirements in physical science for career goals other than the sciences, engineering, and pre-professional healthcare.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

OCE 1013C - Aquatic Environmental Science

This course will investigate living and non-living components of aquatic ecosystems. Students will learn how aquatic ecosystems function naturally as well as how human activity can alter these ecosystems. The course is built around field trip(s) and lab work during which students will obtain water quality data from a local aquatic environment. Through field trip(s) and lab work, students will gain appreciation for the local relevance of course material. For both majors and non-majors, a key outcome of such experiences will be gaining experience in using inquiry and reasoning through the scientific method and becoming comfortable with data, technology, and instrumentation. Problem-solving, interpretation of data, and class discussions will be key.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

PHY 1020 - Physical Science

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1053C - Physics I

The first half of a two term sequence of non-calculus physics designed for the nonphysical science major. Physics I covers the areas of mechanics, mechanical energy, temperature and heat. The entering student is assumed to have a working knowledge of basic algebra and trigonometric functions.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MAC 1114 .

PHY 1054C - Physics II

The second half of a two term sequence of noncalculus physics designed for the nonphysical science major. Physics II covers the areas of electricity, magnetism, light, quantum theory, atomic and nuclear structure, and elementary nuclear processes.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
PHY 1053C or equivalent.

PHY 2048C - College Physics I

The first of a two-course sequence in calculus-based college physics designed for engineering, physical science, and pre-professional studies majors. This course covers mechanics (statics and dynamics), rigid-body dynamics, fluids, and thermodynamics.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prereq/Corequisites:
MAC 2311 .

PHY 2049C - College Physics II

This course is the second in the physics sequence. Topics covered are wave theory, electrostatics, magnetostatics, EM fields and waves, DC circuits, and AC circuits. This is a preparatory class for students taking circuits and electronics classes in upper division science and engineering courses.

Credit Hour(s): 4 Credit Hours When Offered: (Spring, or offered as needed) Prerequisite(s):
PHY 2048C , MAC 2312

Corequisite(s):
MAC 2312 . In special circumstances PHY 2048C and PHY 2049C can be taken out of sequence with instructor approval.

AST 1005 - Introduction to Astrobiology

This course will explore the scientific evidence for the possibility, probability, and potential nature of life that might exist beyond the Earth. Contemporary discoveries about current and past conditions suitable for the origin of life on Mars and some of the moons orbiting other planets in our own solar system are reviewed in the context of what we understand about life on Earth. The question of life in other solar systems is also covered. Space travel and problems regarding intelligent extra-terrestrial beings visiting the Earth and intelligent life beyond the Earth but still within our own solar system are also discussed. All this is done in a fashion which integrates the various branches of science required to understand life beyond the Earth: Astronomy, Biology, Chemistry, Geology, and Physics. There are no prerequisites for this course and it may be taught in a team fashion by faculty members from various scientific disciplines.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

III. Choose one additional science course from either Area I or Area II above OR (Choose One)

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

GLY 2601C - Introduction to Paleontology

This course is a survey of prehistoric life. Topics include fossilization, systematics, evolution, ecology, extinction, and the geological history of life. Laboratory work covers the anatomy, classification, and ecology of major phyla of both extinct and extant organisms, including monerans, protists, plant, macroinvertebrates, and vertebrate animals. The course involves local and regional fossil collecting trips. This course may be used as a General Education science course for any A.S program, and may be used as a category III General Education science course for the A.A. degree.

Credit Hour(s): 4 Credit Hours When Offered: (Fall or Spring)

HLP 1081 - Wellness: Practice and Theory

____ ____ any Biological or Physical Science Course from Area I or Area II above 4 Credit Hours

A course designed to promote wellness through assessment, instruction and fitness programs which, if applied, will enable the individual to achieve and/or maintain a high quality of health and fitness throughout life. Based on assessment test results a physical examination by a physician may be recommended.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

E. Social Sciences: 6

I. Gordon Rule Social Sciences

AMH 2010 - American History I

American History to 1877; describes the social, political, and economic development of the American people against the geographical background of the New World. Particular emphasis on American intellectual and political thought leading to the emergence of basic American character, ideas and attitudes. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

AMH 2020 - American History II

American History from 1877, concentrating on industrial growth, the rise of corporate business, big labor, and government organization. Modification of basic American character and ideas as a continual historical process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

POT 1002 - History and Ideas of Political Science

This course reviews classical ideas, political theory and institutions from a historical and comparative viewpoint. It examines the rise of the State, its organization, economic systems, the use of force, and persuasion. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's

Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1012 - World Civilization I

A study of world history from 4000 BC to 1650 AD as it relates to the development of western civilization. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1022 - World Civilization II

A study of history from 1650 AD to the present as it relates to the development of the modern world. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 2040 - 20th Century

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

International political and historical affairs in the 20th century through the institutions and organizations of the Western State System. Attention is on international cooperation, decision making, force, world resources, and world political geography by the selection of a specific problem. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

II. General Social Sciences

ANT 2000 - Introduction to Anthropology

Introduction to the fundamental principles, concepts, methods and theories in Anthropology. Includes a brief introduction to the subdisciplines of anthropology: cultural anthropology, biological anthropology, archaeology, and linguistics. A cross-cultural perspective will be paramount in the study of anthropology.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ANT 2100 - Introduction to Archaeology

Introduction to the fundamental principles, methods, and theories in archaeology. Includes a history of the development of archaeology, and examination of the nature of archaeological data and research, an introduction to archaeological data and analysis, and an examination of approaches to synthesis and interpretation. North and South American archeology is studied, but non-western examples are also studied to enhance an understanding of the development of the discipline in Europe and the Americas.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SYG 2000 - Sociology

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

F. General Education Electives: 1

ASL 1140 - American Sign Language I

Introduces the student to the basic vocabulary and finger spelling of American Sign Language. Emphasis will be on learning to express this language in a simple form and have a basic receptive language competency.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common

prerequisites.

BSC 1005L - Biology Lab

Laboratory for General Biology. Experimental methodology and technique. Not recommended for Biology majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prereq/Corequisites:

BSC 1005 or equivalent.

CHI 1120 - Mandarin Chinese I

This course focuses on pronunciation and grammatical structures of Mandarin Chinese, with emphasis upon balanced development of all four skills: listening, speaking, reading and writing. Covers all basic structures of the language and develops a foundation for further study of the language. Designed for students with no previous knowledge of Chinese.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

ENG 1001 - Research Papers

A learn-by-doing course in the methods of conducting library research and writing a documented paper. Students will work on self-selected subjects under the supervision and guidance of the instructor in a tutorial relationship. For successful completion, each student will write a documented paper in accordance with a standard system. This course may be taken four times for credit.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:

This course may be used as a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. Students may use this course to satisfy deficiency in the Gordon Rule writing requirement, but it may not be used in lieu of traditional Gordon Rule courses, such as ENC 1101.

ESC 1000L - Earth Science Lab

Laboratory experiences pertaining to the physical environment: observation, measurement, data analysis, mapping, map interpretation, and properties of earth materials. This is an optional course serving students who transfer to universities which require a laboratory course to satisfy the General Education requirement in Physical Science.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer)

FRE 1120 - French I

Pronunciation and grammatical structures of French, with emphasis upon balanced development of all four skills – listening, speaking, reading, and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

HUN 2201 - Nutrition ▲

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

LIS 1001 - Library Skills

A course creating learning situations in which individual students can become effective independent users of Learning Resources facilities. This course is recommended for all degree-seeking students in their first term.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

LIS 2004 - Introduction to Internet Research ▲

Introduction to Internet Research is a one-credit hour course offered by the Florida Public Community College system. This course is delivered via the World Wide Web and Internet e-mail. The course focuses on methods of accessing information resources available through the Internet. Students will learn to design search strategies, retrieve, evaluate, and cite Internet resources. The World Wide Web, e-mail, discussion groups, chat, FTP, Gopher, and Telnet are some of the topics covered.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

a full service Internet account, including an electronic mail address from an Internet Service Provider (ISP), or access through a corporate or educational institution prior to beginning the course.

Note:

▲Technology-Across-the-Curriculum Course.

LIT 2335 - Introduction to Children's and Adolescent Literature

Designed to explore the range and diversity of the children's literary canon, surveying the historical development of children's and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2603 - Literature of War in the 20th Century

Designed to investigate the historical, psychological, and universal issues that face societies in times of war, through analysis of a range of literary genre and texts, including fiction, poetry, drama, letters, and memoirs focusing on wars of the modern era. The approach is global, but concentrates heavily on the war experiences of the United States. This course will be a General Education elective, but will not meet Humanities or English General Education requirements. Course has International/Diversity focus for Teacher Ed program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

PHY 1020L - Physical Science Laboratory

A science laboratory course designed to supplement principles covered in Physical Science. Specifically experiments in motion, forces, light, electricity, thermodynamics, astronomy, earth science and meteorology. It is recommended that the student have previously taken PHY 1020 or be currently enrolled in PHY 1020 .

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

SLS 1101 - College Success

A course designed to focus on developing practical study skills to enhance academic success. Skills taught in this course are time management, concentration/memorization, listening, note taking, test taking, use of college resources, establishing goals, identifying learning styles, developing career choices and learning to cope with personal issues that face many college students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1006 - Essentials of Speech †

This course can be used to satisfy missing transfer requirements and/or oral components required in certain programs. Individuals participate in the preparation and presentation of speeches.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 1608 - Public Speaking †

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication †

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPN 1120 - Spanish I

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

▲Technology-Across-the-Curriculum Course

Pronunciation and grammatical structures of Spanish, with emphasis upon balanced development of all four skills – listening, speaking, reading, and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total AA General Education Credits Required: 36

AA Degree Checklist:

Office Administration (AS)

Admission Program Objective Code 2100 State CIP Code 1552020400

Students who successfully complete selected technical courses in this program may also be eligible to receive the college credit certificates in Office Specialist (CCC) (State CIP Code 0552040704), Medical Office Management (CCC) (State CIP Code 0551071605), Office Management (CCC) (State CIP Code 05520200401) and/or Medical Coder/Biller (CCC) (CCC) (state CIP Code 0351070707).

General Education

Total General Education Credits Required: 18

Core Courses

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

OST 1107 - Word Processing I

Integration of basic keyboarding and word processing – learning the keyboard, creating, editing, saving, and other word processing functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

▲Technology-Across-the-Curriculum Course.

OST 1355 - Records Management

Methods and systems of filing used in business offices, filing equipment, and time-and-motion skills. Filing practice sets are used.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2117 - Word Processing II

Continuation of Typing and Word Processing I – develop keyboarding and document processing using a microcomputer.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

OST 1107 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

OST 2401 - General Office Management

Study of practices and procedures in the modern office. Emphasis on exercising judgment, handling incoming calls and callers, processing mail, word processing systems, editing and composing techniques, travel arrangements, banking procedures, employment applications and resumes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

OST 2117 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Core Credits Required: 24

Technical Elective Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner's equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

BUL 2242 - Business Law II

Course context explores laws relative to negotiable instruments, agency, partnerships, (includes study of Uniform Partnership Act), corporation law, creditors rights, consumer protection and insurance. Based on Uniform Commercial Code.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

GEB 1940 - Internship - Business (can be completed two times for credit)

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business

stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HIM 1000 - Health Information and Delivery Systems

Orientation to medical records history and professional associations. Confidentiality, filing, retrieving, indexing, numbering, storage and content of the medical record is also discussed. The course includes job search skills and professional job performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1005 - Legal Terminology

This course is designed to give an explanation of the common legal vocabulary involved in the broad, general principles of substantive and common law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1013 - Introduction to the Legal System

A practical introduction to the US legal system, types and sources of law, the courts, and related topics; a beginning course for students seeking careers in legal secretary technology or legal assisting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1800 - Introduction to Family Law

____ ____ - Other Approved College Credits _ Credit Hours

An introduction to practices as they relate to family law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Total Technical Elective Credits Required: 21

Total Program Credits Required: 63

Early Childhood Education, Birth through Four (BSE)

Admission Program Objective Code S300 State CIP Code 1101312102
The Bachelor of Science in Early Childhood Education, Birth through Four is designed to prepare students to work in programs serving children ages 0-4 years. Graduates will be prepared for advancement in the Early Childhood career field. The degree offers a career ladder for students earning the Associate of Science in Early Childhood Education at NWFSC, which includes the seven state-mandated prerequisite courses. A.S. students will complete an additional 18 hours of General Education classes during their upper division coursework, after admission to the Early Childhood Education program. Students earning an A.A. may also enter this program after completing the state-mandated prerequisite courses. These students will complete technical classes during their upper division coursework after admission to the Early Childhood Education program. For a detailed summary of graduation requirements for this degree program, see the Bachelor of Science graduation requirement section.
Substitutions for any coursework in this program of study must be approved by the Teacher Education Program Director. Please note that some courses below may require lower division prerequisites not specified as program requirements.

AA Degree (FAMU Pre-Architecture Articulation Agreement)

Admission Program Objective Code 1043 State CIP Code 1192401010

Articulation Agreement with the Florida A&M University (FAMU) School of Architecture:

An articulation agreement between NWFSC and Florida A&M University (FAMU) School of Architecture allows students to earn an Associate in Arts (A.A.) degree that could qualify them for entrance to the upper-division of the Bachelor of Science in Architectural Studies degree program at FAMU. It is highly recommended that, in addition to the common prerequisites listed below, students should consult the current catalog from FAMU. Some SUS programs have restricted access or are considered Limited Access programs. Students are responsible for completing the specific requirements for admissions. For more information on the FAMU A.A. to B.S. articulation, contact Mr. Ray Rickman at 729-5218 or rickmanr@nwfsc.edu.

Associate in Arts Degree/Pre-Architecture FAMU Prerequisites

Please consult the Course Description section of the catalog for the required prerequisites of all courses needed to satisfy the requirements of this program. Students must meet NWFSC A.A. degree graduation requirements.

General Education

ARH 2060 - Architecture History
Survey of significant contributions in architecture from prehistoric to modern times. Architecture will be considered in terms of stylistic qualities, structural type, and intended usage. Topics will be addressed according to historical content, societal background, and geographical location. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.
Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful

completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

BSC 1005 - General Biology

The principles of biology are included. Human Biology is emphasized. Man's effect on the environment is considered wherever appropriate. (NO LABORATORY — Not for majors in Biology).

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

HLP 1081 - Wellness: Practice and Theory

A course designed to promote wellness through assessment, instruction and fitness programs which, if applied, will enable the individual to achieve and/or maintain a high quality of health and fitness throughout life. Based on assessment test results a physical examination by a physician may be recommended.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

LIT 2090 - Contemporary Literature

Studies in contemporary literature, focusing on comments on modern man. May be used as Humanities credit. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

MAC 1114 - Trigonometry

This is the second course in a Pre-calculus sequence which includes the following topics: definitions, graphs, and properties of the six trigonometric functions and their inverses; trigonometric identities; solving trigonometric equations; solving right and oblique triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

MAC 2311 - Calculus I

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L’Hopital’s Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle’s theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of “C” or better or equivalent; or appropriate placement score.

PHY 1053C - Physics I

The first half of a two term sequence of non-calculus physics designed for the nonphysical science major. Physics I covers the areas of mechanics, mechanical energy, temperature and heat. The entering student is assumed to have a working knowledge of basic algebra and trigonometric functions.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MAC 1114 .

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Total General Education Credits Required: 36

Program Electives

ARC 1131 - Architectural Presentation

This course introduces basic ideas and presentation techniques directed towards developing design skills, such as drawing, perspective sketching, and graphics using a variety of media to include: pencil, ink, colored pencils, markers, and model building to be used in architectural presentations. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Summer)

ARC 1301C - Design 1.1

The primary foci of this course are the development of two and three-dimensional graphic skills and the ability to think spatially and to manipulate elements in space. Analysis and design exercises are located primarily in abstract two/three dimensional space and deal with topics such as figure/ground relationships, line/plane/mass, the idea of systems, networks, repetition, and the relation of

part to the whole. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 4 Credit Hours When Offered: (Fall)

ARC 1302C - Design 1.2

This course continues the emphasis and topics studied in Design 1.1, with increased expectation with regard to graphic and spatial manipulation ability. Students study exemplary works of architecture and art, beginning the process of developing an understanding of the role history plays in their creative explorations. By the end of the course, site and the human being are part of the design environment. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):
ARC 1301C .

ARC 2201 - Theory of Architecture

An introduction to architectural theory, selected contemporary architectural theories and movements, and their evolution and historical basis. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ETD 1102 .

ARC 2303A - Design 2.1

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):
ARC 2201 .

ARC 2304 - Design 2.2

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making, and human behavior.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):
ARC 2303A .

ARC 2472 - Introduction to the Technology of Architecture

This course is the beginning of the technology sequence in the areas of structures, environment technology, and materials and methods of construction. It introduces themes such as the response of buildings to the natural environment, the strength, stiffness, and durability in building materials, and the quantitative method of analysis and design of building assemblies and support systems. It explores the relationship between building technology and the social, aesthetic, environmental and economic aspects of the settings in which buildings are located, and how these factors relate to the process of architectural design. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 4 Credit Hours When Offered: (Summer)

ARC 2501 - Architectural Structures I

The emphasis of the course is on the development of the principles of statics and the application of these principles to the analysis and design of structural systems, primarily column, beam, slab systems, and the truss systems. The course builds on the basic ideas of structural form and material properties developed in Introduction to the Technology of Architecture.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
any college level physics or calculus course, and concurrent enrollment in ARC 2472 . This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

ETD 1320C - AutoCAD I

A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1102 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

Total Program Elective Credits Required: 36

Total Articulation Program Credits Required: 72

Total Articulation Program Credits Required: 72

Total Articulation Program Credits Required: 72

Total Articulation Program Credits Required: 72

Total Articulation Program Credits Required: 72

Total Articulation Program Credits Required: 72

Total Articulation Program Credits Required: 72

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Total Articulation Program Credits Required: 72

AS Degree General Education Requirements

All A.S. degree programs at NWFSC require a minimum of 18 college credits in general education. Unless otherwise specified in the program requirements, students must complete one course from each of the following categories to meet general education requirements. A.S. degree-seeking students must also meet Speaking-Across-the-Curriculum , Technology-Across-the-Curriculum and Gordon Rule course and minimum grade requirements described in the General Education for All Degrees section of the catalog.

Communications Skills (3 credits required):

ENC 1101 - English Composition I ▲

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

▲ Technology-Across-the-Curriculum Course

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

Mathematics (3 credits required):

MAC 1105 - College Algebra

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

MAC 1114 - Trigonometry

This is the second course in a Pre-calculus sequence which includes the following topics: definitions, graphs, and properties of the six trigonometric functions and their inverses; trigonometric identities; solving trigonometric equations; solving right and oblique triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

MAC 1140 - Pre-Calculus Algebra

This is the first course in a two-course Pre-calculus sequence which includes the following: equations and inequalities; linear, quadratic, logarithmic and exponential functions and relations; systems of equations; matrices and determinants, mathematical proof techniques, including mathematical induction; binomial theorem; sequences and series; and applications of algebraic techniques in the real world. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1105 with a grade of “C” or better, or equivalent; or appropriate placement score.

MAC 1147 - Pre-Calculus Algebra/Trigonometry

This course reviews algebra and trigonometry. Topics include the following: polynomial, rational, exponential, logarithmic, and trigonometric functions; inverse functions; trigonometric identities and equations; solutions of triangles; vector algebra; topics from analytical geometry; sequences; series; mathematical induction; and the binomial theorem. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for

general education.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

appropriate placement score and high school trigonometry with a "B" or better; or special permission of the Mathematics Department.

MAC 2233 - Business Calculus

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

MAC 2311 - Calculus I

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L'Hopital's Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle's theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of "C" or better or equivalent; or appropriate placement score.

MAC 2312 - Calculus II

This is the second course in a three-course sequence. The course covers the following: techniques for finding areas, volumes, arc lengths and surface areas, methods of integration, including integration by parts, trigonometric substitution, and partial fractions, improper integrals, conic sections, graphing and area in polar coordinates, infinite sequences and series, tests for absolute and conditional convergence of series, and power series. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2311 with a grade of "C" or better or equivalent.

MAC 2313 - Calculus III

This is the third course in a three-course sequence. The course includes the following topics: vectors, lines and planes in space, quadric surfaces, vector-valued functions and motion in space, functions of two or more variables, partial derivatives, gradients, directional derivatives, and their applications, multiple integrals in rectangular, cylindrical, and spherical coordinates, and their applications, line integrals, and surface integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2312 with a grade of "C" or better or equivalent.

MAD 2104 - Introduction to Discrete Mathematics

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of "C" or better in MAC 1140 or a course in programming.

MAP 2302 - Differential Equations

This course provides an introduction to ordinary differential equations with an emphasis on first and second order linear equations and applications. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

either completion of MAC 2313 with a "C" or better or concurrent enrollment in MAC 2313 . Equivalent courses from other institutions may be used to meet the prerequisite.

MAS 2103 - Linear Algebra

This is an introductory course in Linear Algebra intended to give students enough insight to enable successful pursuit of more abstract mathematics courses. This course includes the study of matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, eigenvalues, and eigenvectors. Exercises using MATLAB will be required. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

completion of MAC 2312 with a grade or “C” or better, or equivalent.

MGF 1106 - Mathematics for Liberal Arts I

This course is designed for those students requiring only general education mathematics courses. It includes systematic counting, probability, statistics, history of mathematics, geometry, sets, and logic. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MGF 1107 - Mathematics for Liberal Arts II

This course is designed for those students requiring only general education mathematics courses. Topics include numeration and mathematical systems, number theory, linear and exponential growth, history of mathematics, voting techniques, graph theory, and consumer mathematics. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MTG 2206 - College Geometry

This course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve the following: line segments, angles, triangles, polygons, parallel and perpendicular lines, slopes of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems. Lines and other geometric figures are graphed in the rectangular coordinate system. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

completion of MAC 1105 or equivalent with a “C” or better.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

STA 2122 - Statistical Applications

This course is designed for students pursuing psychology, education, and some specialized degrees. The course is an introduction to understanding and applying statistical concepts. Topics include: descriptive statistics, probability distributions, one and two sample hypothesis testing, confidence interval estimation, correlation, regression, and analysis of variance. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Humanities (3 credits required):

ARH 2050 - Art History: Pre-Renaissance †

Survey of significant contributions in art from prehistoric through Renaissance. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism †

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2060 - Architecture History †

Survey of significant contributions in architecture from prehistoric to modern times. Architecture will be considered in terms of stylistic qualities, structural type, and intended usage. Topics will be addressed according to historical content, societal background, and geographical location. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2402 - Art History: Modern Art †

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 1020 - Humanities – Introduction †

A chronological survey of techniques and forms related to art, dance, film, literature, music, philosophy, religion and theater. Art works and selected readings are utilized as much as possible. The course includes Writing-Across-the-Curriculum and Speaking-Across-the-Curriculum. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 2250 - Humanities – A Contemporary Perspective †

This course is an integrated study of the artistic, cultural, philosophic, religious, social, and technological influences that shape modern western cultures in the modern era. The focus will begin with the 20th century and follow, chronologically, the issues of the modern era. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

MUL 1010 - Music Appreciation †

Designed to develop a more intelligent understanding of and appreciation of music. By methodically surveying the main periods of Western Art Music from the Medieval Period through present day, this class will bring about an awareness of music as a vital source in human life, and will aid in developing positive attitudes toward culture and the fine arts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet AA Gordon Rule requirements for general education, a minimum grade of "C" is required. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the- Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

PHI 2600 - Introduction to Ethics †

Ways to frame and resolve ethical issues are studied. Major historical theories including consequentialism, deontology, and virtue ethics are presented in moral arguments and narratives. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-

Curriculum requirement.

THE 2071 - Humanities – Cinema Appreciation †

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2000 - Theatre Appreciation †

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature †

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the General Education Requirements requirement.

Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Science (4 credits required):

AST 1002 - Descriptive Astronomy

This non-lab one-semester course is designed to meet the general education requirements in physical science for non-science majors and for students in related scientific fields needing a scientific elective. The course includes topics in planetary astronomy, the sun and stellar evolution, galaxies, and cosmology. Also covered are basic physical laws, light, and telescopes. Exercises require only basic math with some very limited algebra.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BOT 1010C - Botany

This course covers the structure and function of seed plants, basic information on plant metabolism, including photosynthesis and water relations, and a survey of lower plants, algae and fungi. It introduces basic concepts of ecology and plant geography and stresses the importance of plants to humans. Laboratory sessions illustrate concepts from the lecture using specimens, microscope slides and field trips.

Credit Hour(s): 4 Credit Hours When Offered: (Spring)

BSC 1005 - General Biology

The principles of biology are included. Human Biology is emphasized. Man's effect on the environment is considered wherever appropriate. (NO LABORATORY — Not for majors in Biology).

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1010C - Principles of Biology I

A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

high school biology and chemistry or CHM 1020 and eligibility to enroll in MAC 1105 .

BSC 1011C - Principles of Biology II

This course is a continuation of BSC 1010C . It provides an overview of the history of life on Earth, a summary of the concepts of phylogeny and classification, and a survey of organisms with emphasis on plants and animals. Structure, evolution, taxonomy, and ecology of the major phyla will be included. This course is required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

BSC 1010C .

BSC 1085C - Anatomy and Physiology I

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

CHM 1020 - Chemical Science

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

CHM 1032C - General Chemistry for Life Sciences

This course is a one-semester introduction to chemistry especially appropriate for those pursuing a degree for a career in an allied health science field, although open to all students. Topics include atomic theory, bonding, nomenclature, gases, acids and bases, stoichiometry, and solutions, with an additional emphasis on reaction rates, equilibria, organic and biochemistry, and organic and biomolecules and their roles and functions in living organisms.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MAT 1033A or appropriate placement test scores.

CHM 1045C - College Chemistry I

Quantitative approach to modern theoretical and descriptive chemistry with appropriate development of laboratory technique.

Includes symbols, formulas, equations, atomic structure, bonding, states of matter, stoichiometry, thermo-chemistry, solutions, colloids, molecular orbitals, periodicity and properties. A two semester sequence in general chemistry with laboratory exercises and demonstrations. University transfer credit.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MAC 1105 required; high school Chemistry or Physics, CHM 1020 or PHY 1020 advised.

CHM 1046C - College Chemistry II

Continuation of CHM 1045C . Includes kinetics, chemical equilibrium, acids and bases, thermo-dynamics, non-metals and their compounds, electrochemistry, redox, the atmosphere, hydrocarbons, biochemistry, nuclear chemistry, coordination compounds, and qualitative analysis.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1045C .

ESC 1000 - Earth Science

This course provides an introduction to materials, processes, and interactions of Earth’s global environments – the lithosphere (solid earth), hydrosphere (water earth), atmosphere (gaseous earth), and biosphere (living earth). It also includes a survey of sciences pertaining to the Earth, including basic astronomy, meteorology, oceanography, and geology.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 1001C - Environmental Science

A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

GLY 2010C - Principles of Geology I

Survey of the composition and dynamic processes of the solid Earth. Topics include planetary geology, mineralogy and petrology, volcanism, surface environments and processes (ocean floor, coastlines, rivers, karst, glaciers, deserts), seismology, surface deformation, Earth’s interior, plate tectonics, and mountain formation. Laboratory exercises in mineral and rock identification, interpretation of geological landforms using topographic maps, earthquakes, and basic field methods. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

GLY 2100C - Principles of Geology II

Survey of the physical and biological history of the Earth. Course is divided into two parts. First is a review of common minerals, rocks, and fossils; the use of stratified sedimentary rocks to reconstruct past environments and climates; and the theory of plate tectonics. Second is an overview of the origin and early evolution of the Earth, tectonic formation of continents and oceans, and life through time (first appearance of life, early life in the ocean, Age of Dinosaurs, the Great Ice Age, and the appearance of the first humans). Field and laboratory work in mineral, rock, and fossil identification, description of stratigraphic sections in the field, and geologic map construction and interpretation. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

GLY 2601C - Introduction to Paleontology

This course is a survey of prehistoric life. Topics include fossilization, systematics, evolution, ecology, extinction, and the geological history of life. Laboratory work covers the anatomy, classification, and ecology of major phyla of both extinct and extant organisms, including monerans, protists, plant, macroinvertebrates, and vertebrate animals. The course involves local and regional fossil collecting trips. This course may be used as a General Education science course for any A.S program, and may be used as a category III General Education science course for the A.A. degree.

Credit Hour(s): 4 Credit Hours When Offered: (Fall or Spring)

ISC 1003 - Natural Disasters – Causes, Consequences, Human Response

This interdisciplinary course investigates natural catastrophic events, such as earthquakes, volcanic eruptions, tsunamis, hurricanes and floods. This class will use an environmental studies approach to examine how modern society exacerbates the damage caused by these natural phenomena and methods to mitigate human suffering. The student will gain an appreciation of humankind’s relationship to the natural environment.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

MET 1010 - Introduction to Meteorology

Structure of the atmosphere, weather processes, systems and phenomena; climate and climatic change, and economic impact of weather.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

OCE 1001C - Oceanography

A survey of the physics, chemistry, geology and biology of the oceans. Interrelationships between the atmosphere and oceans, methods of measurement and research, processes of coastal change and marine conservation. May be used to satisfy A.A. requirements in physical science for career goals other than the sciences, engineering, and pre-professional healthcare.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

OCE 1013C - Aquatic Environmental Science

This course will investigate living and non-living components of aquatic ecosystems. Students will learn how aquatic ecosystems function naturally as well as how human activity can alter these ecosystems. The course is built around field trip(s) and lab work during which students will obtain water quality data from a local aquatic environment. Through field trip(s) and lab work, students will gain appreciation for the local relevance of course material. For both majors and non-majors, a key outcome of such experiences will be gaining experience in using inquiry and reasoning through the scientific method and becoming comfortable with data, technology, and instrumentation. Problem-solving, interpretation of data, and class discussions will be key.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

PHY 1020 - Physical Science

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1053C - Physics I

The first half of a two term sequence of non-calculus physics designed for the nonphysical science major. Physics I covers the areas of mechanics, mechanical energy, temperature and heat. The entering student is assumed to have a working knowledge of basic algebra and trigonometric functions.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MAC 1114 .

PHY 1054C - Physics II

The second half of a two term sequence of noncalculus physics designed for the nonphysical science major. Physics II covers the areas of electricity, magnetism, light, quantum theory, atomic and nuclear structure, and elementary nuclear processes.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PHY 1053C or equivalent.

PHY 2048C - College Physics I

The first of a two-course sequence in calculus-based college physics designed for engineering, physical science, and pre-professional studies majors. This course covers mechanics (statics and dynamics), rigid-body dynamics, fluids, and thermodynamics.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prereq/Corequisites:

MAC 2311 .

PHY 2049C - College Physics II

This course is the second in the physics sequence. Topics covered are wave theory, electrostatics, magnetostatics, EM fields and waves, DC circuits, and AC circuits. This is a preparatory class for students taking circuits and electronics classes in upper division science and engineering courses.

Credit Hour(s): 4 Credit Hours When Offered: (Spring, or offered as needed) Prerequisite(s):

PHY 2048C , MAC 2312

Corequisite(s):

MAC 2312 . In special circumstances PHY 2048C and PHY 2049C can be taken out of sequence with instructor approval.

ZOO 1010C - Zoology

An introduction to the major concepts of animal life, to include the structure, taxonomy, evolutionary relationships, and natural history of the major animal groups.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

AST 1005 - Introduction to Astrobiology

This course will explore the scientific evidence for the possibility, probability, and potential nature of life that might exist beyond the Earth. Contemporary discoveries about current and past conditions suitable for the origin of life on Mars and some of the moons orbiting other planets in our own solar system are reviewed in the context of what we understand about life on Earth. The question of life in other solar systems is also covered. Space travel and problems regarding intelligent extra-terrestrial beings visiting the Earth and intelligent life beyond the Earth but still within our own solar system are also discussed. All this is done in a fashion which integrates the various branches of science required to understand life beyond the Earth: Astronomy, Biology, Chemistry, Geology, and Physics. There are no prerequisites for this course and it may be taught in a team fashion by faculty members from various scientific disciplines.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Humanities (3 credits required):

ARH 2050 - Art History: Pre-Renaissance †

Survey of significant contributions in art from prehistoric through Renaissance. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism †

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2060 - Architecture History †

Survey of significant contributions in architecture from prehistoric to modern times. Architecture will be considered in terms of stylistic qualities, structural type, and intended usage. Topics will be addressed according to historical content, societal background, and geographical location. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common

prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2402 - Art History: Modern Art †

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 1020 - Humanities – lntroduction †

A chronological survey of techniques and forms related to art, dance, film, literature, music, philosophy, religion and theater. Art works and selected readings are utilized as much as possible. The course includes Writing-Across-the-Curriculum and Speaking-Across-the-Curriculum. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 2250 - Humanities – A Contemporary Perspective †

This course is an integrated study of the artistic, cultural, philosophic, religious, social, and technological influences that shape modern western cultures in the modern era. The focus will begin with the 20th century and follow, chronologically, the issues of the modern era. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

MUL 1010 - Music Appreciation †

Designed to develop a more intelligent understanding of and appreciation of music. By methodically surveying the main periods of Western Art Music from the Medieval Period through present day, this class will bring about an awareness of music as a vital source in human life, and will aid in developing positive attitudes toward culture and the fine arts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet AA Gordon Rule requirements for general education, a minimum grade of "C" is required. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the- Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from

placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

PHI 2600 - Introduction to Ethics †

Ways to frame and resolve ethical issues are studied. Major historical theories including consequentialism, deontology, and virtue ethics are presented in moral arguments and narratives. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2071 - Humanities – Cinema Appreciation †

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2000 - Theatre Appreciation †

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature †

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the General Education Requirements requirement.

Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Mathematics (3 credits required):

MAC 1105 - College Algebra

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

MAC 1114 - Trigonometry

This is the second course in a Pre-calculus sequence which includes the following topics: definitions, graphs, and properties of the six trigonometric functions and their inverses; trigonometric identities; solving trigonometric equations; solving right and oblique triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

MAC 1140 - Pre-Calculus Algebra

This is the first course in a two-course Pre-calculus sequence which includes the following: equations and inequalities; linear, quadratic, logarithmic and exponential functions and relations; systems of equations; matrices and determinants, mathematical proof techniques, including mathematical induction; binomial theorem; sequences and series; and applications of algebraic techniques in the real world. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1105 with a grade of “C” or better, or equivalent; or appropriate placement score.

MAC 1147 - Pre-Calculus Algebra/Trigonometry

This course reviews algebra and trigonometry. Topics include the following: polynomial, rational, exponential, logarithmic, and trigonometric functions; inverse functions; trigonometric identities and equations; solutions of triangles; vector algebra; topics from analytical geometry; sequences; series; mathematical induction; and the binomial theorem. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

appropriate placement score and high school trigonometry with a "B" or better; or special permission of the Mathematics Department.

MAC 2233 - Business Calculus

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better

in another Gordon Rule Mathematics course; or appropriate placement score.

MAC 2311 - Calculus I

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L'Hopital's Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle's theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of "C" or better or equivalent; or appropriate placement score.

MAC 2312 - Calculus II

This is the second course in a three-course sequence. The course covers the following: techniques for finding areas, volumes, arc lengths and surface areas, methods of integration, including integration by parts, trigonometric substitution, and partial fractions, improper integrals, conic sections, graphing and area in polar coordinates, infinite sequences and series, tests for absolute and conditional convergence of series, and power series. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2311 with a grade of "C" or better or equivalent.

MAC 2313 - Calculus III

This is the third course in a three-course sequence. The course includes the following topics: vectors, lines and planes in space, quadric surfaces, vector-valued functions and motion in space, functions of two or more variables, partial derivatives, gradients, directional derivatives, and their applications, multiple integrals in rectangular, cylindrical, and spherical coordinates, and their applications, line integrals, and surface integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2312 with a grade of "C" or better or equivalent.

MAD 2104 - Introduction to Discrete Mathematics

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of "C" or better in MAC 1140 or a course in programming.

MAP 2302 - Differential Equations

This course provides an introduction to ordinary differential equations with an emphasis on first and second order linear equations and applications. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

either completion of MAC 2313 with a "C" or better or concurrent enrollment in MAC 2313 . Equivalent courses from other institutions may be used to meet the prerequisite.

MAS 2103 - Linear Algebra

This is an introductory course in Linear Algebra intended to give students enough insight to enable successful pursuit of more abstract mathematics courses. This course includes the study of matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, eigenvalues, and eigenvectors. Exercises using MATLAB will be required. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

completion of MAC 2312 with a grade or "C" or better, or equivalent.

MGF 1106 - Mathematics for Liberal Arts I

This course is designed for those students requiring only general education mathematics courses. It includes systematic counting, probability, statistics, history of mathematics, geometry, sets, and logic. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MGF 1107 - Mathematics for Liberal Arts II

This course is designed for those students requiring only general education mathematics courses. Topics include numeration and mathematical systems, number theory, linear and exponential growth, history of mathematics, voting techniques, graph theory, and consumer mathematics. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MTG 2206 - College Geometry

This course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve the following: line segments, angles, triangles, polygons, parallel and perpendicular lines, slopes of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems. Lines and other geometric figures are graphed in the rectangular coordinate system. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

completion of MAC 1105 or equivalent with a “C” or better.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

STA 2122 - Statistical Applications

This course is designed for students pursuing psychology, education, and some specialized degrees. The course is an introduction to understanding and applying statistical concepts. Topics include: descriptive statistics, probability distributions, one and two sample hypothesis testing, confidence interval estimation, correlation, regression, and analysis of variance. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Social Sciences (3 credits required):

AMH 2010 - American History I *

American History to 1877; describes the social, political, and economic development of the American people against the geographical background of the New World. Particular emphasis on American intellectual and political thought leading to the emergence of basic American character, ideas and attitudes. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

AMH 2020 - American History II *

American History from 1877, concentrating on industrial growth, the rise of corporate business, big labor, and government organization. Modification of basic American character and ideas as a continual historical process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

ANT 2000 - Introduction to Anthropology
Introduction to the fundamental principles, concepts, methods and theories in Anthropology. Includes a brief introduction to the subdisciplines of anthropology: cultural anthropology, biological anthropology, archaeology, and linguistics. A cross-cultural perspective will be paramount in the study of anthropology.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ANT 2100 - Introduction to Archaeology
Introduction to the fundamental principles, methods, and theories in archaeology. Includes a history of the development of archaeology, and examination of the nature of archaeological data and research, an introduction to archaeological data and analysis, and an examination of approaches to synthesis and interpretation. North and South American archeology is studied, but non-western examples are also studied to enhance an understanding of the development of the discipline in Europe and the Americas.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ECO 2013 - Economics I
This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEA 1000 - World Regional Geography
The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government *
Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

POT 1002 - History and Ideas of Political Science *
This course reviews classical ideas, political theory and institutions from a historical and comparative viewpoint. It examines the rise of the State, its organization, economic systems, the use of force, and persuasion. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2010 - Social Problems *

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1012 - World Civilization I *

A study of world history from 4000 BC to 1650 AD as it relates to the development of western civilization. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1022 - World Civilization II *

A study of history from 1650 AD to the present as it relates to the development of the modern world. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 2040 - 20th Century *

* This Social Science course meets the Gordon Rule (FAC Rule 6A-10.030) writing requirements. Credits earned in this course, at NWFSC or by transfer, that are applicable towards the A.A. general education requirement shall be based on a minimum grade of

"C."

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
International political and historical affairs in the 20th century through the institutions and organizations of the Western State System. Attention is on international cooperation, decision making, force, world resources, and world political geography by the selection of a specific problem. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

General Education Electives (2 credits required):

CGS 1100 - Microcomputer Applications ▲

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition ▲

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

SLS 1101 - College Success

A course designed to focus on developing practical study skills to enhance academic success. Skills taught in this course are time management, concentration/memorization, listening, note taking, test taking, use of college resources, establishing goals, identifying learning styles, developing career choices and learning to cope with personal issues that face many college students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking †

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication †

___ ____ - Any other A.A. General Education course listed on in the A.A. General Education section of the catalog.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

▲ Technology-Across-the-Curriculum Course
This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Science (4 credits required):

AST 1002 - Descriptive Astronomy
This non-lab one-semester course is designed to meet the general education requirements in physical science for non-science majors and for students in related scientific fields needing a scientific elective. The course includes topics in planetary astronomy, the sun and stellar evolution, galaxies, and cosmology. Also covered are basic physical laws, light, and telescopes. Exercises require only basic math with some very limited algebra.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BOT 1010C - Botany
This course covers the structure and function of seed plants, basic information on plant metabolism, including photosynthesis and water relations, and a survey of lower plants, algae and fungi. It introduces basic concepts of ecology and plant geography and stresses the importance of plants to humans. Laboratory sessions illustrate concepts from the lecture using specimens, microscope slides and field trips.

Credit Hour(s): 4 Credit Hours When Offered: (Spring)

BSC 1005 - General Biology
The principles of biology are included. Human Biology is emphasized. Man's effect on the environment is considered wherever appropriate. (NO LABORATORY — Not for majors in Biology).

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1010C - Principles of Biology I
A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
high school biology and chemistry or CHM 1020 and eligibility to enroll in MAC 1105 .

BSC 1011C - Principles of Biology II
This course is a continuation of BSC 1010C . It provides an overview of the history of life on Earth, a summary of the concepts of phylogeny and classification, and a survey of organisms with emphasis on plants and animals. Structure, evolution, taxonomy, and ecology of the major phyla will be included. This course is required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
BSC 1010C .

BSC 1085C - Anatomy and Physiology I
A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II
A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 2020C - Human Structure and Function
A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction

to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

CHM 1020 - Chemical Science

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

CHM 1032C - General Chemistry for Life Sciences

This course is a one-semester introduction to chemistry especially appropriate for those pursuing a degree for a career in an allied health science field, although open to all students. Topics include atomic theory, bonding, nomenclature, gases, acids and bases, stoichiometry, and solutions, with an additional emphasis on reaction rates, equilibria, organic and biochemistry, and organic and biomolecules and their roles and functions in living organisms.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MAT 1033A or appropriate placement test scores.

CHM 1045C - College Chemistry I

Quantitative approach to modern theoretical and descriptive chemistry with appropriate development of laboratory technique. Includes symbols, formulas, equations, atomic structure, bonding, states of matter, stoichiometry, thermo-chemistry, solutions, colloids, molecular orbitals, periodicity and properties. A two semester sequence in general chemistry with laboratory exercises and demonstrations. University transfer credit.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MAC 1105 required; high school Chemistry or Physics, CHM 1020 or PHY 1020 advised.

CHM 1046C - College Chemistry II

Continuation of CHM 1045C . Includes kinetics, chemical equilibrium, acids and bases, thermo-dynamics, non-metals and their compounds, electrochemistry, redox, the atmosphere, hydrocarbons, biochemistry, nuclear chemistry, coordination compounds, and qualitative analysis.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1045C .

ESC 1000 - Earth Science

This course provides an introduction to materials, processes, and interactions of Earth’s global environments – the lithosphere (solid earth), hydrosphere (water earth), atmosphere (gaseous earth), and biosphere (living earth). It also includes a survey of sciences pertaining to the Earth, including basic astronomy, meteorology, oceanography, and geology.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

EVR 1001C - Environmental Science

A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

GLY 2010C - Principles of Geology I

Survey of the composition and dynamic processes of the solid Earth. Topics include planetary geology, mineralogy and petrology, volcanism, surface environments and processes (ocean floor, coastlines, rivers, karst, glaciers, deserts), seismology, surface deformation, Earth’s interior, plate tectonics, and mountain formation. Laboratory exercises in mineral and rock identification, interpretation of geological landforms using topographic maps, earthquakes, and basic field methods. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

GLY 2100C - Principles of Geology II

Survey of the physical and biological history of the Earth. Course is divided into two parts. First is a review of common minerals, rocks, and fossils; the use of stratified sedimentary rocks to reconstruct past environments and climates; and the theory of plate tectonics. Second is an overview of the origin and early evolution of the Earth, tectonic formation of continents and oceans, and life through time (first appearance of life, early life in the ocean, Age of Dinosaurs, the Great Ice Age, and the appearance of the first humans). Field and laboratory work in mineral, rock, and fossil identification, description of stratigraphic sections in the field, and geologic map construction and interpretation. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

GLY 2601C - Introduction to Paleontology

This course is a survey of prehistoric life. Topics include fossilization, systematics, evolution, ecology, extinction, and the geological history of life. Laboratory work covers the anatomy, classification, and ecology of major phyla of both extinct and extant organisms, including monerans, protists, plant, macroinvertebrates, and vertebrate animals. The course involves local and regional fossil collecting trips. This course may be used as a General Education science course for any A.S program, and may be used as a category III General Education science course for the A.A. degree.

Credit Hour(s): 4 Credit Hours When Offered: (Fall or Spring)

ISC 1003 - Natural Disasters – Causes, Consequences, Human Response

This interdisciplinary course investigates natural catastrophic events, such as earthquakes, volcanic eruptions, tsunamis, hurricanes and floods. This class will use an environmental studies approach to examine how modern society exacerbates the damage caused by these natural phenomena and methods to mitigate human suffering. The student will gain an appreciation of humankind's relationship to the natural environment.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

MET 1010 - Introduction to Meteorology

Structure of the atmosphere, weather processes, systems and phenomena; climate and climatic change, and economic impact of weather.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

OCE 1001C - Oceanography

A survey of the physics, chemistry, geology and biology of the oceans. Interrelationships between the atmosphere and oceans, methods of measurement and research, processes of coastal change and marine conservation. May be used to satisfy A.A. requirements in physical science for career goals other than the sciences, engineering, and pre-professional healthcare.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

OCE 1013C - Aquatic Environmental Science

This course will investigate living and non-living components of aquatic ecosystems. Students will learn how aquatic ecosystems function naturally as well as how human activity can alter these ecosystems. The course is built around field trip(s) and lab work during which students will obtain water quality data from a local aquatic environment. Through field trip(s) and lab work, students will gain appreciation for the local relevance of course material. For both majors and non-majors, a key outcome of such experiences will be gaining experience in using inquiry and reasoning through the scientific method and becoming comfortable with data, technology, and instrumentation. Problem-solving, interpretation of data, and class discussions will be key.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

PHY 1020 - Physical Science

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1053C - Physics I

The first half of a two term sequence of non-calculus physics designed for the nonphysical science major. Physics I covers the areas of mechanics, mechanical energy, temperature and heat. The entering student is assumed to have a working knowledge of basic algebra and trigonometric functions.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MAC 1114 .

PHY 1054C - Physics II

The second half of a two term sequence of noncalculus physics designed for the nonphysical science major. Physics II covers the areas of electricity, magnetism, light, quantum theory, atomic and nuclear structure, and elementary nuclear processes.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PHY 1053C or equivalent.

PHY 2048C - College Physics I

The first of a two-course sequence in calculus-based college physics designed for engineering, physical science, and pre-professional studies majors. This course covers mechanics (statics and dynamics), rigid-body dynamics, fluids, and thermodynamics.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prereq/Corequisites:

MAC 2311 .

PHY 2049C - College Physics II

This course is the second in the physics sequence. Topics covered are wave theory, electrostatics, magnetostatics, EM fields and waves, DC circuits, and AC circuits. This is a preparatory class for students taking circuits and electronics classes in upper division science and engineering courses.

Credit Hour(s): 4 Credit Hours When Offered: (Spring, or offered as needed) Prerequisite(s):

PHY 2048C , MAC 2312

Corequisite(s):

MAC 2312 . In special circumstances PHY 2048C and PHY 2049C can be taken out of sequence with instructor approval.

ZOO 1010C - Zoology

An introduction to the major concepts of animal life, to include the structure, taxonomy, evolutionary relationships, and natural history of the major animal groups.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

AST 1005 - Introduction to Astrobiology

This course will explore the scientific evidence for the possibility, probability, and potential nature of life that might exist beyond the Earth. Contemporary discoveries about current and past conditions suitable for the origin of life on Mars and some of the moons orbiting other planets in our own solar system are reviewed in the context of what we understand about life on Earth. The question of life in other solar systems is also covered. Space travel and problems regarding intelligent extra-terrestrial beings visiting the Earth and intelligent life beyond the Earth but still within our own solar system are also discussed. All this is done in a fashion which integrates the various branches of science required to understand life beyond the Earth: Astronomy, Biology, Chemistry, Geology, and Physics. There are no prerequisites for this course and it may be taught in a team fashion by faculty members from various scientific disciplines.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Total AS General Education Credits Required: 18

Social Sciences (3 credits required):

AMH 2010 - American History I *

American History to 1877; describes the social, political, and economic development of the American people against the geographical background of the New World. Particular emphasis on American intellectual and political thought leading to the emergence of basic American character, ideas and attitudes. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

AMH 2020 - American History II *

American History from 1877, concentrating on industrial growth, the rise of corporate business, big labor, and government organization. Modification of basic American character and ideas as a continual historical process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful

completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

ANT 2000 - Introduction to Anthropology

Introduction to the fundamental principles, concepts, methods and theories in Anthropology. Includes a brief introduction to the subdisciplines of anthropology: cultural anthropology, biological anthropology, archaeology, and linguistics. A cross-cultural perspective will be paramount in the study of anthropology.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ANT 2100 - Introduction to Archaeology

Introduction to the fundamental principles, methods, and theories in archaeology. Includes a history of the development of archaeology, and examination of the nature of archaeological data and research, an introduction to archaeological data and analysis, and an examination of approaches to synthesis and interpretation. North and South American archeology is studied, but non-western examples are also studied to enhance an understanding of the development of the discipline in Europe and the Americas.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

POS 1041 - American Government *

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

POT 1002 - History and Ideas of Political Science *

This course reviews classical ideas, political theory and institutions from a historical and comparative viewpoint. It examines the rise of the State, its organization, economic systems, the use of force, and persuasion. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the

physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2010 - Social Problems *

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1012 - World Civilization I *

A study of world history from 4000 BC to 1650 AD as it relates to the development of western civilization. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1022 - World Civilization II *

A study of history from 1650 AD to the present as it relates to the development of the modern world. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 2040 - 20th Century *

* This Social Science course meets the Gordon Rule (FAC Rule 6A-10.030) writing requirements. Credits earned in this course, at NWFSC or by transfer, that are applicable towards the A.A. general education requirement shall be based on a minimum grade of "C."

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
International political and historical affairs in the 20th century through the institutions and organizations of the Western State System. Attention is on international cooperation, decision making, force, world resources, and world political geography by the selection of a specific problem. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

General Education Electives (2 credits required):

CGS 1100 - Microcomputer Applications ▲

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition ▲

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

SLS 1101 - College Success

A course designed to focus on developing practical study skills to enhance academic success. Skills taught in this course are time management, concentration/memorization, listening, note taking, test taking, use of college resources, establishing goals, identifying learning styles, developing career choices and learning to cope with personal issues that face many college students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SPC 1608 - Public Speaking †

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication †

___ ____ - Any other A.A. General Education course listed on in the A.A. General Education section of the catalog.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

▲ Technology-Across-the-Curriculum Course

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict

resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

AS Degree Checklist:

Humanities (3 credits required):

ARH 2050 - Art History: Pre-Renaissance †

Survey of significant contributions in art from prehistoric through Renaissance. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism †

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2060 - Architecture History †

Survey of significant contributions in architecture from prehistoric to modern times. Architecture will be considered in terms of stylistic qualities, structural type, and intended usage. Topics will be addressed according to historical content, societal background, and geographical location. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-

Curriculum requirement.

ARH 2402 - Art History: Modern Art †

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 1020 - Humanities – Introduction †

A chronological survey of techniques and forms related to art, dance, film, literature, music, philosophy, religion and theater. Art works and selected readings are utilized as much as possible. The course includes Writing-Across-the-Curriculum and Speaking-Across-the-Curriculum. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 2250 - Humanities – A Contemporary Perspective †

This course is an integrated study of the artistic, cultural, philosophic, religious, social, and technological influences that shape modern western cultures in the modern era. The focus will begin with the 20th century and follow, chronologically, the issues of the modern era. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

MUL 1010 - Music Appreciation †

Designed to develop a more intelligent understanding of and appreciation of music. By methodically surveying the main periods of Western Art Music from the Medieval Period through present day, this class will bring about an awareness of music as a vital source in human life, and will aid in developing positive attitudes toward culture and the fine arts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet AA Gordon Rule requirements for general education, a minimum grade of "C" is required. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the- Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

PHI 2600 - Introduction to Ethics †

Ways to frame and resolve ethical issues are studied. Major historical theories including consequentialism, deontology, and virtue ethics are presented in moral arguments and narratives. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2071 - Humanities – Cinema Appreciation †

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2000 - Theatre Appreciation †

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature †

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the General Education Requirements requirement.

Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Total AS General Education Credits Required: 18

AS Degree Checklist:

Communications Skills (3 credits required):

ENC 1101 - English Composition I ▲

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1102 - English Composition II

▲ Technology-Across-the-Curriculum Course

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

Humanities (3 credits required):

ARH 2050 - Art History: Pre-Renaissance †

Survey of significant contributions in art from prehistoric through Renaissance. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism †

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2060 - Architecture History †

Survey of significant contributions in architecture from prehistoric to modern times. Architecture will be considered in terms of stylistic qualities, structural type, and intended usage. Topics will be addressed according to historical content, societal background, and geographical location. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2402 - Art History: Modern Art †

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 1020 - Humanities – Introduction †

A chronological survey of techniques and forms related to art, dance, film, literature, music, philosophy, religion and theater. Art works and selected readings are utilized as much as possible. The course includes Writing-Across-the-Curriculum and Speaking-Across-the-Curriculum. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common

prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 2250 - Humanities – A Contemporary Perspective †

This course is an integrated study of the artistic, cultural, philosophic, religious, social, and technological influences that shape modern western cultures in the modern era. The focus will begin with the 20th century and follow, chronologically, the issues of the modern era. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

MUL 1010 - Music Appreciation †

Designed to develop a more intelligent understanding of and appreciation of music. By methodically surveying the main periods of Western Art Music from the Medieval Period through present day, this class will bring about an awareness of music as a vital source in human life, and will aid in developing positive attitudes toward culture and the fine arts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet AA Gordon Rule requirements for general education, a minimum grade of "C" is required. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the- Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

PHI 2600 - Introduction to Ethics †

Ways to frame and resolve ethical issues are studied. Major historical theories including consequentialism, deontology, and virtue ethics are presented in moral arguments and narratives. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2071 - Humanities – Cinema Appreciation †

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2000 - Theatre Appreciation †

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature †

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the General Education Requirements requirement.

Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Welding - See Applied Welding Technologies

Go to Applied Welding Technologies (PSAV), click below

AA Degree

Admission Program Objective Code 1043 State CIP Code 1192401010

Associate in Arts students must complete sixty (60) college credits to complete the degree. Thirty-six (36) of these credits must be general education credits distributed across five subject area categories. A student must satisfy the minimum number of credits in each category. No more than one credit (1) may be selected from the list of General Education Electives (category F). The remaining twenty-four (24) elective credits should be selected in consultation with an advisor, who will assist the student in selecting college credits most advantageous to the student's educational goals.

General Education

Total General Education Credits Required: 36

Total General Education Credits Required: 36

AA Degree Checklist:

AA Elective Requirements

Total Elective Credits Required: 24

AA Degree Checklist:

Total Program Credits Required: 60

AA Degree Checklist:

AA Degree Checklist:

AA Degree Checklist:

AA Degree Checklist:

AA Degree Checklist:

AA Degree Checklist:

AA Degree Checklist:

AA Degree Checklist:

General Education

Total General Education Credits Required: 36

Total General Education Credits Required: 36

Engineering Technology - Electronics Specialization Option (AS)

Admission Program Objective Code 2010E State CIP Code 1615000001
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the five specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, Digital Manufacturing and Electronics with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.
The 18 credit hours core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification. Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007).

Technical Elective Courses

EET 1015C - Electricity/Electronics I, DC Circuits

This is the first course required for Electronics Aide certificate. This course introduces the theories, concepts, and relationships of voltage, current, and power in DC series, parallel, and series/parallel circuits containing common circuit elements with single and multiple sources. Students are introduced to Ohm's Law, Kirchoff's voltage and current Laws, Thieving's, Norton's, super-position, and maximum transfer of power theorems and their uses in DC circuit analysis. Students will learn how to use a digital multimeter to trouble shoot and analysis DC circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1084C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1025C - Electricity/Electronics II, AC Circuits

This is the second course required for Electronics Aide certificate. This course introduces the theories, concepts, and relationships of voltage, current, and power in AC series, parallel, and series/parallel circuits containing common circuit elements with single and 3-phase sources. Students will apply Ohm's Law, Kirchoff's voltage and current Laws, Thieving's, Norton's, super-position, and maximum transfer of power theorems and their uses in AC circuit analysis. Included will be the use of a multimeter and oscilloscope for experimentation with and trouble shooting AC circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1015C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1141C - Solid State Electronics

This is the third course required for Electronics Aide certificate. This course introduces the student to the concept, components, and uses of solid state electronics. Topics include semiconductor devices; thyristors and diodes, transistors, amplifiers, power supplies, oscillators, and optoelectronics. The use of capacitors and inductors in solid state electronics will be also covered. The design, set-up, and troubleshooting solid state circuits and devices using various power supplies and function generators will be dispersed throughout the class.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1025C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2190C - Industrial Electronics

This course investigates the applications of electronic and electrical systems common to industrial processes. The concepts and applications for polyphase circuits and three phase power will be explored and how they apply to industrial electrical power conditioning and management. The use of Computer Management Integration (CMI) and how they relate to industrial electronics will also be covered. Applications will include testing and troubleshooting industrial mechanical electronic circuits, analyzing industrial electronics and contributing systems failures to establish a maintenance plan, and evaluate the need for replacement, overhaul, and or upgrading of industrial electronic equipment. Safety will be covered and stressed throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2215C - Industrial Electronics Test & Measurement Instrumentation

This is an introductory course into the application, operation, and maintenance of industrial electronic test and measurement instrumentation used in manufacturing. Equipment covered will be DMMs, oscilloscopes with probes, function generators and analyzers, logic analyzers, and complete instrument systems to include automatic test equipment (ATE). Also covered in this course is terminology common to industrial instrumentation, error probabilities, degree of accuracy required, units, and standards used for reporting raw and analyzed results. Both standard and metric measurements will be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EET 1180C - Industrial Electronic Troubleshooting

This course covers troubleshooting procedures for a variety of electronic equipment and circuits common to industrial applications. The student will develop and implement trouble shooting protocols and plans, equipment monitoring plans, a preventive maintenance plan, and select appropriate test and monitoring equipment. Safety in an industrial setting will be stressed and reinforced through a series of lab exercises throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

CET 2114C - Digital Fundamentals

This is the fourth and last course required for the electronics aide certificate. This is an introductory course for digital circuits, fundamentals, concepts, and design. Areas covered will include number systems, logic gates and circuits, and Boolean algebra. Digital devices covered will include decoders, encoders, multiplexers, demultiplexers, flip-flops, counters, and registers used in the application of combinational and sequential logic. Analog-to-digital and digital-to-analog conversion will be covered. Laboratory exercises will cover measurement and analysis of digital circuits and devices using digital test equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1141C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2155C - Linear Integrated Circuits

This course covers the fundamentals and applications of linear integrated circuits and operational amplifiers. The course covers includes inverting and non-inverting amplifiers, comparators, signal generators, differential and instrumentation amplifiers, operational amplifier specifications, active filters, modulator-demodulator integrated circuits, timers, analog to digital converters (ADC), and digital to analog converters (DAC) and measurement and analysis of linear circuits and devices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1015C , EET 1025C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

ETS 1511C - Motors and Controls

This course explores the theory and application of AC and DC motors, types of single-phase motors, three-phase power, three-phase motors, remote and local control, forward and reversing motor starters, and various motor control circuits. Wiring and troubleshooting exercises of electric three-phase motor control circuits are emphasized in a wide range of applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.
(Course number pending)

Total Technical Elective Credits Required: 24

Technical Elective Courses

EET 1015C - Electricity/Electronics I, DC Circuits

This is the first course required for Electronics Aide certificate. This course introduces the theories, concepts, and relationships of voltage, current, and power in DC series, parallel, and series/parallel circuits containing common circuit elements with single and multiple sources. Students are introduced to Ohm's Law, Kirchoff's voltage and current Laws, Thieving's, Norton's, super-position, and maximum transfer of power theorems and their uses in DC circuit analysis. Students will learn how to use a digital multimeter to trouble shoot and analysis DC circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1025C - Electricity/Electronics II, AC Circuits

This is the second course required for Electronics Aide certificate. This course introduces the theories, concepts, and relationships of voltage, current, and power in AC series, parallel, and series/parallel circuits containing common circuit elements with single and 3-phase sources. Students will apply Ohm's Law, Kirchoff's voltage and current Laws, Thieving's, Norton's, super-position, and maximum transfer of power theorems and their uses in AC circuit analysis. Included will be the use of a multimeter and oscilloscope for experimentation with and trouble shooting AC circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1015C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1141C - Solid State Electronics

This is the third course required for Electronics Aide certificate. This course introduces the student to the concept, components, and uses of solid state electronics. Topics include semiconductor devices; thyristors and diodes, transistors, amplifiers, power supplies, oscillators, and optoelectronics. The use of capacitors and inductors in solid state electronics will be also covered. The design, set-up, and troubleshooting solid state circuits and devices using various power supplies and function generators will be dispersed

throughout the class.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1025C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2190C - Industrial Electronics

This course investigates the applications of electronic and electrical systems common to industrial processes. The concepts and applications for polyphase circuits and three phase power will be explored and how they apply to industrial electrical power conditioning and management. The use of Computer Management Integration (CMI) and how they relate to industrial electronics will also be covered. Applications will include testing and troubleshooting industrial mechanical electronic circuits, analyzing industrial electronics and contributing systems failures to establish a maintenance plan, and evaluate the need for replacement, overhaul, and or upgrading of industrial electronic equipment. Safety will be covered and stressed throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2215C - Industrial Electronics Test & Measurement Instrumentation

This is an introductory course into the application, operation, and maintenance of industrial electronic test and measurement instrumentation used in manufacturing. Equipment covered will be DMMs, oscilloscopes with probes, function generators and analyzers, logic analyzers, and complete instrument systems to include automatic test equipment (ATE). Also covered in this course is terminology common to industrial instrumentation, error probabilities, degree of accuracy required, units, and standards used for reporting raw and analyzed results. Both standard and metric measurements will be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EET 1180C - Industrial Electronic Troubleshooting

This course covers troubleshooting procedures for a variety of electronic equipment and circuits common to industrial applications. The student will develop and implement trouble shooting protocols and plans, equipment monitoring plans, a preventive maintenance plan, and select appropriate test and monitoring equipment. Safety in an industrial setting will be stressed and reinforced through a series of lab exercises throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

CET 2114C - Digital Fundamentals

This is the fourth and last course required for the electronics aide certificate. This is an introductory course for digital circuits, fundamentals, concepts, and design. Areas covered will include number systems, logic gates and circuits, and Boolean algebra. Digital devices covered will include decoders, encoders, multiplexers, demultiplexers, flip-flops, counters, and registers used in the application of combinational and sequential logic. Analog-to-digital and digital-to-analog conversion will be covered. Laboratory exercises will cover measurement and analysis of digital circuits and devices using digital test equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1141C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2155C - Linear Integrated Circuits

This course covers the fundamentals and applications of linear integrated circuits and operational amplifiers. The course covers includes inverting and non-inverting amplifiers, comparators, signal generators, differential and instrumentation amplifiers, operational amplifier specifications, active filters, modulator-demodulator integrated circuits, timers, analog to digital converters (ADC), and digital to analog converters (DAC) and measurement and analysis of linear circuits and devices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1015C , EET 1025C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.

ETS 1511C - Motors and Controls
This course explores the theory and application of AC and DC motors, types of single-phase motors, three-phase power, three-phase motors, remote and local control, forward and reversing motor starters, and various motor control circuits. Wiring and troubleshooting exercises of electric three-phase motor control circuits are emphasized in a wide range of applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1084C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.
(Course number pending)

Total Technical Elective Credits Required: 24

General Education Requirements

AA Degree General Education Requirements
AS Degree General Education Requirements
Technology-Across-the-Curriculum
Writing-Across-the-Curriculum
Oral Communication Speaking-Across-the-Curriculum
Gordon Rule Courses
Diversity Focus for Teacher Education Programs

Course Descriptions

All Courses
Adult Education Courses
Developmental Education Courses
Directed independent study provides opportunities for students to earn college credits in standard courses by working with a college instructor on an independent basis. Students enrolling for courses under Directed Independent Study (DIS) are expected to accomplish the goals and objectives as specified in the course syllabus and are expected to attend such class meetings, group sessions, and working conferences as specified by the instructor. Courses are scheduled on a flexible basis as approved by the instructor, the department chair, and by the Vice President of Academic Affairs with the understanding that final exams will be taken and grades awarded during the term in which they begin. All regular fees apply to DIS courses.
DIS course enrollments are authorized under the following conditions:
A documented need exists for the student(s) to enroll for the course immediately rather than taking an alternate course or waiting until the next term in which the desired course would be offered.
The student is able to identify an instructor who is willing to teach the course as DIS.
The student understands the extensive burden which he or she is undertaking.
Enrollment is approved by the Department Chair and Vice President of Academic Affairs.
When it is not feasible for the course/section to be scheduled concurrently and taught at the same time and locations as another course/section.

Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 27 participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at http://scns.fldoe.org.
Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.
The course prefix and each digit in the course number have a meaning in the SCNS. The listing of prefixes and associated courses is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

Examples of Course Identifiers

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
ENC	1	1	0	1	English Composition

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in Exception to the General Rule for Equivalency.
For example, a freshman composition skills course is offered by 59 different postsecondary institutions. Each institution uses "ENC_101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit "1" represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."

In the sciences and certain other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course that has the same prefix and course number but meets at a different time or place.
Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, [[permalink=44|tooltip:{'title':1}]]%prefix% %code%[[/permalink]] is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed [[permalink=44|tooltip:{'title':1}]]%prefix% %code%[[/permalink]] at a Florida College System institution is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since [[permalink=44|tooltip:{'title':1}]]%prefix% %code%[[/permalink]] is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent. NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Lower Division College Credit Courses
Upper Division College Credit Courses
Vocational Courses

Courses by Type (Subject Area)

Accounting ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner’s equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

although not required, MTB 1103 is highly recommended.

Note:

▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders’ equity. Preparation of the statement of cash flow will be emphasized. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ACG 2011 .

ACG 2450 - Computer Applications for Accounting

An introductory course in computerized integrated accounting procedures found in the microcomputer environment. Includes application of software designed for general ledger, accounts payable and receivable, financial statement analysis, purchasing and sales order processing, fixed assets, payroll, inventory and departmental accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

▲Technology-Across-the-Curriculum Course.

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

ACO 1806 - Payroll Accounting

Introduction to the theory, laws and procedures related to payroll activities of a business. Topics include payroll and personnel records, federal payroll laws, payroll operations, computerized payroll systems, and preparation of payroll registers, earnings records, and payroll tax forms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ACG 2001 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

TAX 2000 - Federal Income Tax: Individual

Federal Income Taxes. Determine income tax for individuals, interpretations of Internal Revenue Code and Regulation, tax planning and advisory service. Brief introduction to partnership, corporation, estate and gift taxes. Extensive practice problems in individual income tax returns and research in tax questions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Adult Basic Education (ABE) XAB ___ - ABE Comprehensive

This course provides individual and small group instruction in reading, comprehension, math, basic computation, English and writing skills for adults who need to complete their elementary and secondary studies.

Note:

* Course number varies with number of instructional contact hours.

Anthropology, Archeology ANT 2000 - Introduction to Anthropology

Introduction to the fundamental principles, concepts, methods and theories in Anthropology. Includes a brief introduction to the subdisciplines of anthropology: cultural anthropology, biological anthropology, archaeology, and linguistics. A cross-cultural perspective will be paramount in the study of anthropology.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ANT 2100 - Introduction to Archaeology

Introduction to the fundamental principles, methods, and theories in archaeology. Includes a history of the development of archaeology, and examination of the nature of archaeological data and research, an introduction to archaeological data and analysis, and an examination of approaches to synthesis and interpretation. North and South American archeology is studied, but non-western examples are also studied to enhance an understanding of the development of the discipline in Europe and the Americas.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ANT 2159C - Florida Southeast US Archaeology

Introduction to special topics in anthropology and archaeology. Example: field experience in archaeology, brief introduction to

prehistoric native American cultures in Florida and the southeastern United States and field experience excavating a prehistoric site in Okaloosa County.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Architectural Drafting BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 1272 - Blueprint Reading for Commercial Construction

A course to familiarize non-drafting students with techniques of blueprint reading and the fundamentals of construction methods that make blueprint reading meaningful.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 1520 - Electrical Systems in Construction

A course to familiarize students with electrical terminology, practices, methods, code requirements and safety and health in construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 1567 - Plumbing and Gas Construction Practices

A course to familiarize students with Plumbing and Gas code requirements, terminology, methods, practices, processes and safety and health used in building construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 2231 - Building Construction Materials and Processes II

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

BCN 2560 - Mechanical Systems in Construction

A course to familiarize students with mechanical trades terminology, methods, practices, code requirements processes, and safety and health criteria in mechanical construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 2721 - Construction Management/Planning

The course covers project development and organization from pre-construction site investigation to final completion. The course will include the management of project estimates, plans, schedules, operations and safety. The student will become knowledgeable about documents used in the construction industry for bid, contracts, zoning, permits, bonds, loans specifications and drawings. Cost engineering, procurement, value engineering and quality assurance will be covered. Cost management through job cost analysis and purchase order systems will also be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 1763 - Construction Safety and Health

A basic course in construction safety and health, covering such topics as: theories of accident causation; workplace hazards; hazard analysis and prevention; accident reporting; OSHA construction standard and safety practices; environmental safety; violence in the workplace; ergonomics; ethics and safety; workers' compensation; and stress on the job.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 2761 - Structural Systems in Construction

A course to familiarize students with structural terminology, practices, methods, code requirements and safety, and health criteria in construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 2770 - Construction Estimating

A course in estimating as it relates to the construction industry covering references, estimating methods, take-off organization and presentation; material take-off, cost estimating in heavy construction, mathematical formulas for estimating, quantity take-off from plan review, and computer estimating overview.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

BCN 1230 , BCN 1272 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

TAR 2121C - Architectural Drafting

Architectural design and development of residential and light commercial buildings to include: development and construction of good architectural freehand lettering, VA and FHA approved residential house plans, “Good Sense” house plans as defined in the Arkansas Plan, and heat loss/heat gain calculations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or ETD 1112 or equivalent.

Architecture ARC 1131 - Architectural Presentation

This course introduces basic ideas and presentation techniques directed towards developing design skills, such as drawing, perspective sketching, and graphics using a variety of media to include: pencil, ink, colored pencils, markers, and model building to be used in architectural presentations. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Summer)

ARC 1301C - Design 1.1

The primary foci of this course are the development of two and three-dimensional graphic skills and the ability to think spatially and to manipulate elements in space. Analysis and design exercises are located primarily in abstract two/three dimensional space and deal with topics such as figure/ground relationships, line/plane/mass, the idea of systems, networks, repetition, and the relation of part to the whole. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 4 Credit Hours When Offered: (Fall)

ARC 1302C - Design 1.2

This course continues the emphasis and topics studied in Design 1.1, with increased expectation with regard to graphic and spatial manipulation ability. Students study exemplary works of architecture and art, beginning the process of developing an understanding of the role history plays in their creative explorations. By the end of the course, site and the human being are part of the design environment. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

ARC 1301C .

ARC 2201 - Theory of Architecture

An introduction to architectural theory, selected contemporary architectural theories and movements, and their evolution and historical basis. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ETD 1102 .

ARC 2303A - Design 2.1

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

ARC 2201 .

ARC 2304 - Design 2.2

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making, and human behavior.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

ARC 2303A .

ARC 2472 - Introduction to the Technology of Architecture

This course is the beginning of the technology sequence in the areas of structures, environment technology, and materials and methods of construction. It introduces themes such as the response of buildings to the natural environment, the strength, stiffness, and durability in building materials, and the quantitative method of analysis and design of building assemblies and support systems. It explores the relationship between building technology and the social, aesthetic, environmental and economic aspects of the settings in which buildings are located, and how these factors relate to the process of architectural design. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 4 Credit Hours When Offered: (Summer)

ARC 2501 - Architectural Structures I

The emphasis of the course is on the development of the principles of statics and the application of these principles to the analysis and design of structural systems, primarily column, beam, slab systems, and the truss systems. The course builds on the basic ideas of structural form and material properties developed in Introduction to the Technology of Architecture.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

any college level physics or calculus course, and concurrent enrollment in ARC 2472 . This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

ARC 2701 - Survey of History of Architecture, Part I

A critical exploration of the history and theory of architecture from pre-history through the end of the 13th century. Examination of the making and intent of significant buildings and sites tracing the developments that have given meaning to the built environment and brought order to the tectonics of architecture. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Art ART 1201C - Two-Dimensional Design

An introductory course, both theoretical and applied, dealing with the principles of organization and the elements of design in a two-dimensional format. This is a foundation course for all of the graphic arts: painting, printmaking, and the two-dimensional crafts. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1203C - Three-Dimensional Design

An introductory course, both theoretical and applied, dealing with principles of organization and the elements of design in a 3-dimensional format. Various materials, tools, and surfaces are used to explore 3-D form. This is a foundation course. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1300C - Drawing I

Basic drawing course covering different drawing media, line, form, shape, value and spatial relationships. Drawing problems involving a variety of subject matter will be explored. Emphasis is on value, drawing techniques, spatial relationships between shapes and composition. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1301C - Drawing II

Continued study of drawing techniques explored in Drawing I. Provides experience with more complex drawing problems. Emphasis is on self-expression, value, color theory, and composition. A variety of subject matter and drawing media will be explored.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ART 1300C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 1750C - Pottery I

The students shall be exposed to the production of pottery utilizing all known hand building techniques. Also includes introduction to potter's wheel and basic wheel fundamentals. The first half of course is hand building, the second half is devoted to development of skills on the potter's wheel. Students also learn how to glaze pottery and make glass. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

ART 1751C - Pottery II

Continues hand building of Pottery I, but major emphasis is placed upon development skills utilizing the potter's wheel. Additional glazing experimentation is also emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ART 1750C . Please refer to catalog section regarding audit enrollment.

ART 1905A - Independent Study – Art

A defined independent study which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule. Departmental approval is required. Placement test is required. The course includes Writing-Across-The-Curriculum. If used to meet Gordon Rule requirements for general education, a minimum grade of "C" is also required.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

ART 2330C - Figure Drawing I

The development of technical skills and self-expression through drawing the figure; course begins with anatomy studies, progresses to conceptualization of human form. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2331C - Figure Drawing II

This class is a continuation of Figure Drawing I. Emphasis is on composition and self-expression in relation to the human figure. Exploration of media and content will be encouraged.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ART 2330C . Audit enrollment In studio art classes is permitted on a space-available basis only.

ART 2500C - Painting I

Course will include design elements, composition and spatial relationships. Emphasis is on color theory, color mixing, and execution thereof within a variety of subject matter. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2501C - Painting II

This course is a continuation of Painting I ART 2500C with emphasis on further exploration of student's personal style and original techniques. Further experimentation in abstraction and emotional aspects of form and color are explored and expressed.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ART 2500C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2540C - Water Color I

An introduction to water media techniques applied to various subject matter through demonstrations and various lab experiences. Open to all students. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2541C - Water Color II

Allows continued experience in more complex water color technique and subject matter. Emphasis is on composition and individual expression.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

ART 2540C . Audit enrollment In studio art classes is permitted on a space-available basis only.

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

ART 2701C - Sculpture I

An introductory course in the technical and aesthetic consideration of sculptural forms. Includes a wide range of materials and expressions, representing past and present sculptural methods. Audit enrollment in studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

ART 2703C - Sculpture II

Allows continued experience in more complex three-dimensional techniques; emphasis on individual projects and conceptual approach.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ART 2701C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2834C - Gallery Practices

The principles of Art Gallery practices and operations. Both theoretical and practical experiences will be obtained through lectures, field trips and class projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

ART 2930 - Art - Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

ART 2955 - Portfolio Development

Development of a working portfolio through studio project aimed at fulfilling the general requirements the average company, university, art school or advertising agency looks for in a portfolio presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ART 1201C , ART 1203C , ART 1300C , ART 1301C .

Art History ARH 1000 - Art Appreciation

This course offers a study in the basic concepts of art, including function, style and structure with emphasis on the interaction of medium and meaning and problems of art criticism. This class does not fulfill the art history requirements for art majors, but compliments the art major's course of study as an elective. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

ARH 2050 - Art History: Pre-Renaissance

Survey of significant contributions in art from prehistoric through Renaissance. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2060 - Architecture History

Survey of significant contributions in architecture from prehistoric to modern times. Architecture will be considered in terms of stylistic qualities, structural type, and intended usage. Topics will be addressed according to historical content, societal background, and geographical location. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2402 - Art History: Modern Art

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common

prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2930 - Art History – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

Astronomy AST 1002 - Descriptive Astronomy

This non-lab one-semester course is designed to meet the general education requirements in physical science for non-science majors and for students in related scientific fields needing a scientific elective. The course includes topics in planetary astronomy, the sun and stellar evolution, galaxies, and cosmology. Also covered are basic physical laws, light, and telescopes. Exercises require only basic math with some very limited algebra.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

Biology BSC 1005 - General Biology

The principles of biology are included. Human Biology is emphasized. Man's effect on the environment is considered wherever appropriate. (NO LABORATORY — Not for majors in Biology).

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1005C - General College Biology

The principles of biology are included. Human Biology is emphasized. Man's effect on the environment is considered wherever appropriate. General biology uses experimental methodology and technique and includes a survey of bacteria, protist, fungi, plants and animals. The lab content will include a survey of organisms, dissection of plants, invertebrates and vertebrates.

Credit Hour(s): 5 Credit Hours (1 HC) When Offered: (Fall, Spring, Summer) Note:
(NWFSC Collegiate High School Students Only)

BSC 1005L - Biology Lab

Laboratory for General Biology. Experimental methodology and technique. Not recommended for Biology majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prereq/Corequisites:
BSC 1005 or equivalent.

BSC 1010C - Principles of Biology I

A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
high school biology and chemistry or CHM 1020 and eligibility to enroll in MAC 1105 .

BSC 1011C - Principles of Biology II

This course is a continuation of BSC 1010C . It provides an overview of the history of life on Earth, a summary of the concepts of phylogeny and classification, and a survey of organisms with emphasis on plants and animals. Structure, evolution, taxonomy, and ecology of the major phyla will be included. This course is required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
BSC 1010C .

BSC 1080 - Essentials of Anatomy and Physiology

This course surveys basic structure and function of the human body with emphasis on terminology and anatomy.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

BSC 1085C - Anatomy and Physiology I

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1905 - Independent Study – Biology

A course designed to (1) allow a student to complete part of a course taken elsewhere and thereby complete general education requirements, (2) to go deeper into special areas of interest.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 2946 - Directed Work Study – Biology

Practical experience with use and maintenance of lab equipment and materials. Participation in support activities and organizational routines of lab courses. Course fees may be waived. May be taken up to four times for credit. Departmental approval following interview is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

Botany BOT 1010C - Botany

This course covers the structure and function of seed plants, basic information on plant metabolism, including photosynthesis and water relations, and a survey of lower plants, algae and fungi. It introduces basic concepts of ecology and plant geography and stresses the importance of plants to humans. Laboratory sessions illustrate concepts from the lecture using specimens, microscope slides and field trips.

Credit Hour(s): 4 Credit Hours When Offered: (Spring)

Business FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 1214 - Business and Supervision Terminology

This course is designed for students to achieve mastery of the special vocabulary, jargon, and concept terminology associated with general business and supervision in the modern workplace. Students will apply the terms in common workplace scenarios and hypothetical situations, as well as in standard written documents and assignments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed)

GEB 1940 - Internship - Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired

in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today’s business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today’s business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3930 - Business Project and Acquisitions Terms and Concepts

Students will apply specialized terminology of project and acquisitions management in various communication venues including short written documents and summary analyses. Emphasis will be placed upon the latest terms, abbreviations and jargon applicable to the field. Students will research selected terms and concepts in various contemporary periodicals and publications.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

GEB 3933 - Business Research

This seminar-style course, offered in group or individual format, provides an introduction to various references, databases, periodicals, journals and other publications essential to the research of contemporary business issues; also included are methods of accessing resources via the Internet, designing search strategies, citing Internet resources and evaluating research materials.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing

GEB 4454 - Business in a High Technology Environment

Presents the special challenges and opportunities of managing a high technology firm or a traditional entity operating in the high technology environment; addresses software/information security, recruiting technical personnel, outsourcing, equipment security, updating equipment, telecommuting and similar issues.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 .

GEB 4930 - Special Topics: Project Management

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and permission of the instructor.

GEB 4931 - Special Topics: Acquisitions

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and permission of the instructor.

GEB 4932 - Special Topics: Quality Improvement

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and permission of the instructor.

GEB 4933 - Special Topics: Management

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and permission of the instructor.

GEB 4934 - Special Topics: Business Administration

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) from the area of business administration in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and permission of the instructor.

GEB 4941 - Internship: Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and permission of the instructor.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

Business Law BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code. Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

BUL 2242 - Business Law II

Course context explores laws relative to negotiable instruments, agency, partnerships, (includes study of Uniform Partnership Act), corporation law, creditors rights, consumer protection and insurance. Based on Uniform Commercial Code.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s):
upper division standing.

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar

This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 4333 .

Chemistry CHM 1020 - Chemical Science

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

CHM 1032C - General Chemistry for Life Sciences

This course is a one-semester introduction to chemistry especially appropriate for those pursuing a degree for a career in an allied health science field, although open to all students. Topics include atomic theory, bonding, nomenclature, gases, acids and bases, stoichiometry, and solutions, with an additional emphasis on reaction rates, equilibria, organic and biochemistry, and organic and biomolecules and their roles and functions in living organisms.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MAT 1033A or appropriate placement test scores.

CHM 1045C - College Chemistry I

Quantitative approach to modern theoretical and descriptive chemistry with appropriate development of laboratory technique. Includes symbols, formulas, equations, atomic structure, bonding, states of matter, stoichiometry, thermo-chemistry, solutions, colloids, molecular orbitals, periodicity and properties. A two semester sequence in general chemistry with laboratory exercises and demonstrations. University transfer credit.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MAC 1105 required; high school Chemistry or Physics, CHM 1020 or PHY 1020 advised.

CHM 1046C - College Chemistry II

Continuation of CHM 1045C . Includes kinetics, chemical equilibrium, acids and bases, thermo-dynamics, non-metals and their compounds, electrochemistry, redox, the atmosphere, hydrocarbons, biochemistry, nuclear chemistry, coordination compounds, and qualitative analysis.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CHM 1045C .

CHM 2210C - Organic Chemistry I

This course will present the correlation between structure and physical and chemical properties of organic compounds. The principle types of mechanisms involved in organic reactions will be discussed on aliphatic and aromatic hydrocarbons, alkyl halides, alcohols and ethers. Laboratory exercises illustrate these topics.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):

CHM 1046C .

CHM 2211C - Organic Chemistry II

In continuation of Organic Chemistry I the relationships between functional groups and properties of organic compounds will be discussed. Infrared, NMR, and mass spectroscopy will be used for identification of organic compounds and for structure analysis. The transition state theory is applied to interpret the nucleophilic addition reactions, the carbanion condensation reactions, the interconversions of carbonyl compounds and the nucleophilic acyl substitution of carboxylic acids and their derivatives. Biochemical topics, i.e. lipids, carbohydrates, amino acids and proteins are included.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

CHM 2210C .

Chinese CHI 1120 - Mandarin Chinese I

This course focuses on pronunciation and grammatical structures of Mandarin Chinese, with emphasis upon balanced development of all four skills: listening, speaking, reading and writing. Covers all basic structures of the language and develops a foundation for further study of the language. Designed for students with no previous knowledge of Chinese.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

CHI 1121 - Mandarin Chinese II

This course is a continuation of Mandarin Chinese I with additional vocabulary and grammar. Pronunciation and grammatical structures of Mandarin Chinese, with emphasis upon balanced development of all four skills: listening, speaking, reading and writing. Covers all basic structures of the language and develops a foundation for further study of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

CHI 1120 or an equivalent course with a minimum grade of "C".

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Coaching PEO 2004 - Theory and Practice of Teaching a Specific Sport

This course is designed to provide knowledge of the rules, teaching progressions and strategies for competition. The course includes acceptable behavior and ethics for coaches. This course will be offered for the following specific sports: baseball/softball, basketball, football, golf, soccer, swimming, tennis, track and field/cross country, volleyball and wrestling.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PEO 2005 - Coaching Theory

This course is designed to provide knowledge of the characteristics, principles, ethics, and theories related to coaching sports in educational and recreational settings. Emphasis is placed on preparing coaches to train athletes to achieve optimal levels of performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

College Success SLS 1101 - College Success

A course designed to focus on developing practical study skills to enhance academic success. Skills taught in this course are time management, concentration/memorization, listening, note taking, test taking, use of college resources, establishing goals, identifying learning styles, developing career choices and learning to cope with personal issues that face many college students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SLS 1201 - Service Learning Seminar

A seminar course designed to enhance and reinforce the value of civic responsibility and to provide students with a community service program opportunity by volunteering in community agencies in the public and private sectors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

Computer Science CAP 2134C - Database Security

This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 and CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CAP 2762 - Data Mining

This course offers exploration of data mining methodologies. Topics may include decision tables, decision trees, classification rules, association rules, clustering, statistical modeling, and linear models and will focus on data warehousing, data mining and data drilling.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):

CGS 2541 or any programming language.

Note:

▲Technology-Across-the-Curriculum Course.

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1675C - Introduction to IP Telephony

This course explains how companies are using IP Telephony equipment and software to efficiently upgrade existing telephone

systems. In addition, the course will give the student a fundamental understanding of the architecture of voice communication and how signaling, call quality and public switched telephone networks operate in a LAN/WAN networking environment. The use of IP Telephony products will be discussed and how software allows companies to cost-effectively upgrade and eventually replace existing (legacy) telephone systems with more cost-effective and easy-to-use telephone equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1600C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2172C - Microcomputer Servicing

This course introduces the PC system, how it works and how the operating system controls it. Also studied are the components which make up the PC system, how to use multimeters and logic probes to make measurements and troubleshoot the system with the aid of diagnostic software. Students will perform fault analysis of simulated PC defects. In addition, students will learn to disassemble, reassemble and modify the PC hardware components.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses

designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C , CET 2615C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2682C - Cisco Voice over IP (VoIP)

Instruction includes, but is not limited to, Voice over Internet Protocol (VoIP) theory, Voice Gateway configuration in a IP Telephony (IPT) solution, IP Phone configuration, design of VoIP networks and troubleshooting IPT networks. Students will design and configure various VoIP networks using case studies and laboratory equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 2620C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2854C - Fundamentals of Wireless LANs

Develop, implement and troubleshoot wireless networks. This hands-on, skill-based course focuses on the design, planning and operation of wireless networks, with an overview of technologies, security, and design best practices. This course helps prepare the student for the CISCO Wireless Certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 1600C , CET 1610C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2880C - Digital Forensics Fundamentals

This course offers a solid foundation to computer forensics investigations: preparing students to acquire and analyze digital evidence. the course covers tools and techniques and explains topics such as file structure, data recovery, e-mail and network investigations, and expert witness testimony. In addition, the student will gain practical knowledge in conducting digital investigations and preserving digital evidence that maybe used in court or corporate inquiries.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2881C - Digital Forensics II

Digital Forensics II builds upon the foundational knowledge learned in digital forensics fundamentals. Students will utilize industry standard tools to conduct examinations of various digital media and document their findings. Devices to be studied include computers (server, desktop, laptop), mobile devices (tablets, cell phones, smart phones, mp3 players, gps), and devices such as dvr's and routers. Emphasis will be placed upon real-world digital forensics scenarios and the investigative thought process. At the conclusion of the class, students will be prepared to take the accessdata certified examiner (ace) examination.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 2880C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1854C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1660 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2905 - Independent Study, Computer Engineering

This is a directed study course to provide computer engineering students with individual projects designed to meet specific needs in areas of computer engineering technology for which present course availability is limited.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

instructor or departmental chair approval.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2940 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2941 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her

degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2942 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

demonstrated competencies in Widows and keyboarding skills.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CGS 1100 or competency exam.

Note:

▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Permission of the instructor.

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration

testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

recommended knowledge level of networking.

Note:

▲Technology-Across-the-Curriculum Course.

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 2010 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2030 - Programming In Python

An Introduction to Python programming language using microcomputers. Topics include Python basics, use of Python control and data structures, use of Python function, Python 110, and implementation of basic programming tasks.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000

Note:

▲Technology-Across-the-Curriculum Course.

COP 2176 - Visual Basic ADO.Net

The aim of this course is to provide an advanced level of knowledge in database programming using Visual Basic's ADO.Net, using normalization, object and relational types, modeling, data validation, and structured query language (SQL) in creating database applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 2541 , CGS 2544 , COP 1000 , COP 2010 , and COP 2011 .

Corequisite(s):

CGS 2544 , COP 2011 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2220 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 2224 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:

▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2654

Note:

▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 , COP 2660 .

Note:

▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2702 - Introduction to PL-SQL

An introduction to PL-SQL and the design and creation of object-oriented databases (using PL-SQL). Topics include storing, retrieving, updating and displaying data using PL-SQL and Oracle.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2440 or CGS 2541

Note:

▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2800 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):
CGS 2541 and COP 2840 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 2820 .

Note:
▲Technology-Across-the-Curriculum Course.

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 and CGS 1570 recommended.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2314C - Network Defense and Countermeasures

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure and implement secure networks. Security topics covered in this course include firewalls, Intrusion Detection Systems (IDS), Virtual Private Networks (VPN) and policy creation using the Windows Operating System (OS), Transmission Control Protocol/Internet Protocol (TCP/IP) packet and signature analysis. The student will get hands-on instruction installing the network defense mechanisms and countermeasure applications. Software will be used for collecting, monitoring and auditing various

activities; students will analyze threats and intrusions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

CET 1610C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134 , CTS 1106 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CTS 2134

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2438 - Advanced SQL Server Database

This course provides students with advanced topics required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This course is designed to prepare the student for certification, an elective requirement for the Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

CGS 2541 , CTS 2440 , CTS 2437 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2440 - Introduction to Oracle

An introduction to Oracle and the design and creation of relational databases (using Oracle). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, Functions, Packages and Triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2445 - Advanced Oracle

Advanced topics in Oracle and advanced topics in the design and creation of relational databases (using Oracle). Topics include advanced storing and retrieving techniques, advanced topics in updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, advanced topics in functions, packages and triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CGS 1100 , CGS 2541 , CTS 2440 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

ISM 3220 - Network Technologies for Information Professionals

This course is designed to give the student an understanding of the various networking technologies and their practical application

in the management of a business. The course also covers the technical issues involved in designing and implementing an efficient network for voice, data, and information networks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing/admission to any B.A.S. program and at least two information technology or computer science courses at a college or university level.

ISM 3232 - Software Essentials

This course covers a broad range of software topics as they apply to software management and systems analysis and design. Topics include, but are not limited to programming, the systems development life cycle (SDLC), systems management, interface design and Internet technology.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing/admission to any B.A.S. program.

ISM 3323 - Applications in Information Security

This course helps develop the important security concepts relative to software application development and access control that provide the knowledge and skills necessary for the successful management of information security in an organization. Students will understand the environment where software is designed and developed as well as the critical role software plays in providing security to an organization’s information systems. The course focuses on software development concepts that relate to security, and how access control methodologies fit into the entire enterprise architecture.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing/admission to any B.A.S. program.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

ISM 4480 - Electronic Commerce Systems and Strategies

This course is designed to familiarize the student with the management approach to defining and implementing e-commerce (EC) systems. The course addresses the digital economy, EC strategy and marketing, EC models (Business to Business, Business to Consumer, etc.) as well as EC architectures. The course will cover management and regulatory issues in EC such as internationalization, electronic payment methods, Internet fraud, mobile e-commerce, and current implementation technologies. Architectures and inter-dependence (i.e. integration) of systems will be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing/admission to any B.A.S. program.

ISM 4930 - Special Topics - Technology Management

This is an individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Upper division standing and permission of instructor.

Note:

This course may be taken up to two times for credit.

ISM 4931 - Internship - Technology Management

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and permission of instructor.

Criminal Justice CCJ 1010 - Introduction to Criminology

A study of the nature and causes of crime and delinquency; the development of delinquent and criminal behavior; theory development in criminology, crime rates and trends, victimology and particular crime pattern areas.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CCJ 1941 - Internship – Criminal Justice

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Permission of the instructor

Note:

This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJC 2000 - Introduction to Corrections

Theories of punishment and incarceration; the organization of correction programs and institutions, principles of probation and parole, role of parole and probation officers, legal implications; and problems of rehabilitation are covered. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJE 2600 - Criminal Investigations

Fundamentals of investigation; duties and responsibilities of the detective; interrogation techniques; search and techniques of protecting the crime scene; collection and preservation of evidence; modus operandi systems; scientific aids and other sources of information; court preparation and case follow-up.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJJ 1002 - Juvenile Delinquency

A study of the nature and cause of juvenile delinquency, the development of the delinquent and criminal behavior, specific criminal justice subsystem (law enforcement, judicial, corrections) problems dealing with juvenile delinquents from initial contact through final disposition and treatment. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJK 0001 - Introduction to Law Enforcement

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to introduce the student to law enforcement, the process for becoming a certified law enforcement officer, and the requirements of the academy program. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college

credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0012 - Legal

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to introduce the student to the criminal justice system, the chain-of-command system in law enforcement, Constitutional Law, Florida Statutes, and the Police Code of Ethics. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 63 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0013 - Interactions in a Diverse Community

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enhance student awareness and understanding of human diversity issues and to teach students skills to enable them to effectively interact with people of diverse backgrounds. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0014 - Interviewing and Report Writing

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to help the student learn vital communication skills including interviewing, note-taking, statement taking, and report writing. It also helps the student to develop survival skills, stress management skills, and problem solving skills utilizing the SECURE model. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 54 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0020 - Law Enforcement CMS Vehicle Operations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply vehicle operations knowledge, principles and techniques to the police driving environment. This course includes classroom instruction and practical application on the driving range. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0031 - CMS First Aid for Criminal Justice Officers

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply first responder knowledge and techniques to medical emergency situations. This course includes classroom instruction and hands-on practical demonstration. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0040 - CMS Firearms

This course is a component of the Law Enforcement/Corrections Florida CMS Basic Recruit Academy. This course is designed to give the student basic skills and knowledge needed to safely operate a firearm, and shoot a handgun, and shotgun and/or rifle with a prescribed degree of accuracy. This course includes classroom instruction and firing range practice/qualification. This course is open only to students admitted to the Law Enforcement Florida CMS or Corrections Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0051 - Defensive Tactics

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare prospective officers to control subjects and defend themselves using appropriate defensive tactics in accordance with Florida State Statue, the United States Constitution, and case law. This course includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0064 - Fundamentals of Patrol

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to understand Community Oriented Policing and how it is implemented as a problem solving model, and identify the SECURE problem solving model and its application in real life situations; understand officer safety issues, identify and avoid fatal errors, identify and manage stress, maintain mental and physical fitness; respond to a call, approach a suspect, make an arrest, transport a prisoner and process the prisoner at a detention facility; and understand how to direct traffic, how to enforce traffic citations, identify how to respond to alarms and conduct a building search, and search inventory and impound vehicles. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0065 - Calls for Service

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to respond to calls for service, disturbances, people in distress and court orders. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Fall, Spring, Summer) Note:

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advantage of this opportunity.

CJK 0077 - Criminal Investigations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to prepare the student to respond appropriately to a person or property crime victim, witness, and suspect; conduct a preliminary investigation on crimes against persons and crimes against property offenses; conduct a follow-up investigation to establish a suspect's identity and/or ascertain facts of the case; and, give testimony in different types of court proceedings. It includes classroom instruction and practical exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 51 Clock Hours When Offered: (Fall, Spring, Summer) Note:

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CJK 0078 - Crime Scene to Courtroom

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to prepare the student to respond to a crime scene, protect and survey a crime scene, process a crime scene, dust for latent prints, and document a crime scene by sketching. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Fall, Spring, Summer) Note:

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CJK 0084 - DUI Traffic Stops

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to the basic rules for conducting safe and effective DUI stops, including identifying a driver under the influence of alcohol and drugs, conducting field sobriety tests, and completing a DUI investigation. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:

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CJK 0087 - Traffic Stops

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to the basic rules for conducting safe and effective traffic stops, including ethical consideration, safety considerations, citation and warning procedures, and dealing with abandoned vehicles. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 30 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:

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CJK 0088 - Traffic Crash Investigations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to traffic crash investigations, laws pertaining to traffic crashes and procedures for responding to a traffic crash. It includes classroom instruction and practical exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Fall, Spring, Summer) Note:

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CJK 0092 - Critical Incidents

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to identify the crowd control procedures to safely and effectively disperse or control a large group of people; understand local emergency response plans; respond to a bomb threat, assesses the scene, search and evacuate a building or suspected bomb sight, identify Weapons of Mass Destruction and properly respond to a WMD incident. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 45 Clock Hours When Offered: (Fall, Spring, Summer) Note:

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CJK 0096A - Criminal Justice Physical Fitness I

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0096B - Criminal Justice Physical Fitness II

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0096C - Criminal Justice Physical Fitness III

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0240 - Law Enforcement Auxiliary Introduction

This course is a component of the Law Enforcement Auxiliary Basic Recruit Academy. It introduces the student to the criminal justice system. It also introduces an understanding of ethics and professionalism required by a law enforcement auxiliary officer as

well as the daily functions to be conducted by an auxiliary officer. This course is open only to students admitted to the Law Enforcement Auxiliary CMS Basic Recruit Academy.

Credit Hour(s): 27 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0241 - Law Enforcement Auxiliary Patrol and Traffic

This course is a component of the Law Enforcement Auxiliary Basic Recruit Academy. It introduces the student to the basic rules for responding to calls, making arrests, and transporting prisoners. It also helps students understand how to direct traffic, enforce citations and maintain crowd control. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0242 - Law Enforcement Auxiliary Investigations

This course is a component of the Law Enforcement Auxiliary Florida Basic Recruit Academy. It introduces the student to the basic rules for responding, protecting and processing a crime scene. It also introduces how to conduct an investigation and give a testimony in court. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Auxiliary Florida Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0300 - Introduction to Corrections

This course introduces students to the legal and ethical responsibilities of a correctional officer. Legal terms and definitions are explained. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0305 - CJSTC Communications

This course covers the entire report writing process. Topics include interview and interrogation, interpersonal communication, and practical exercises. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0310 - Officer Safety

Correctional officer safety procedures are learned. Students will learn to identify potential hazards and learn how to safely respond. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0315 - Facility and Equipment

Students learn the appropriate procedures for inspecting a correctional facility and equipment. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0320 - Intake and Release

Students learn the appropriate procedures for admitting and releasing inmates in a correctional facility. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0325 - Supervising in a Correctional Facility

Students learn the appropriate procedures for supervising inmates in a correctional facility. They also learn to detect crimes and rule violations in various correctional facility settings. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0330 - Supervising Special Populations

Students learn how to identify and supervise special population groups, such as threat groups, juveniles, elderly, and mentally ill inmates. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0335 - Responding to Incidents and Emergencies

Students learn how to identify and respond to situations involving escapes, riots, bomb threats, fires, and medical emergencies in a correctional facility. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0422 - Dart-Firing Stun Gun

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare students in the proper use of the Dart Firing Stun in accordance with the Florida State Statutes, the United States Constitution, and case law. It includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 9 Clock Hours When Offered: (Offered as needed) Note:

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CJK 0780 - Cross-Over Law Enforcement to Corrections

This course is a component of the Corrections Cross-Over Basic Recruit Academy. This course is designed to enhance Law Enforcement recruits' awareness and understanding of corrections and to teach student skills which will enable them to cross-train into the corrections profession. This course includes classroom instruction. This course is open only to students who have successfully completed the Law Enforcement Basic Recruit Academy and passed the state certification examination for Law Enforcement.

Credit Hour(s): 16 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

Law Enforcement Basic Recruit Training Program.

Note:

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CJL 1100 - Criminal Law

Includes the study of the fundamentals of Criminal Law to include historical background and development, jurisdiction, the criminal act and responsibility, as well as, classification and analysis of Florida Statutes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CJL 1400 - Criminal Procedure

Includes the study of the fundamentals of constitutional, criminal and civil law; principles, duties and mechanics of criminal procedures in Florida as applied to arrest, search, seizure, and court processing; and a functional analysis of the rules of evidence in court procedures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CJL 2500 - Courts and the Judicial Process

This course is designed to teach the student the major structures and basic legal concepts of the American criminal court system. The students shall learn the components, personnel, and inherent social issues in our present criminal court system.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Dance DAA 1100 - Modern Dance

This beginning dance class serves as an introduction to the art of contemporary dance. It includes instruction and practice in basic modern dance techniques, improvisation, dance forms and brief historical overview.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring,, Summer) Note:

This course may be taken up to four times for credit.

DAA 1101 - Intermediate Modern Dance

This course includes a continued analysis of the modern dance at an intermediate level. Instruction and practice in specific contemporary dance techniques and performance qualities will be stressed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

DAA 1200 - Beginning Ballet

This beginning dance course is designed to serve as an introduction to the tradition and discipline of the art of classical ballet.

Physical development of the body as an expressive instrument for ballet movement will be stressed as strength, flexibility, balance, alignment, agility, turnout, control, elevation and sensitivity to line are studied.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

DAA 1201 - Intermediate Ballet

Intermediate Ballet is designed to train the student in the tradition of the art of the classical ballet beyond the basics. Continued development of the body as an expressive instrument for ballet movement will be stressed as students reach the proficiency level necessary to perform the more complicated steps of an intermediate class.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

DAA 1500A - Beginning Jazz

This course includes a brief history of the jazz dance and instruction and practice in jazz dance techniques exploring popular dance idioms.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

DAA 1501 - Intermediate Jazz Dance

Those students ready to move at the intermediate level in jazz will find this course beneficial for the improvement of jazz dance performance techniques.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:

This course may be taken up to four times for credit.

DAA 1520 - Beginning Tap

This course includes instruction in tap dance technique and the introduction of time steps commonly used in musical theater auditions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:

This course may be taken up to four times for credit.

DAA 1521 - Tap II

The Tap II dance class includes a more in-depth history of tap dance, instruction and practice utilizing tap and exploring its various styles.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

DAA 1520 .

Note:

This course may be taken up to four times for credit.

DAA 1580 - Musical Theater Dance I

This beginning course covers the study of musical theater dance techniques and styles as related to a specific performance experience, usually Creative Dramatics. Students must participate in designated rehearsals and performances.

Credit Hour(s): 1 Credit Hour When Offered: (Summer) Prerequisite(s):

level of competency determined by audition.

Note:

This course may be taken up to four times for credit.

DAA 1680 - Dance Workshop

This course includes instruction and participation in dance as required by specific productions, i.e., Theater/Show Choir.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:

This course may be taken up to four times for credit.

DAA 1681 - Dance Ensemble

The student shall participate in the preparation and performance of original dance compositions to include Dance Line and Show Choir performances.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

level of competency determined by audition.

Note:

This course may be taken up to four times for credit.

DAA 1905 - Directed Individual Study – Dance

This course is a defined independent study in dance pursued under the supervision of a faculty dance instructor and recorded through departmental procedures. It is designed to permit a student to pursue non-scheduled dance activity work which may be of a specialized nature and not available through classes or courses available in a college schedule.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

departmental approval is required.

Note:

This course may be taken up to four times for credit.

DAA 2202 - Advanced Ballet

Students enrolling in Advanced Ballet must have reached a high level of physical strength, mastery of skills, and technical knowledge in order to be eligible for placement in this section. Nuances of ballet performance and classical repertoire will be stressed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

DAA 1201 and/or appropriate level of competency approved by the instructor.

Note:

This course may be taken up to four times for credit.

DAA 2220 - Pointe

The student must already have mastered intermediate/advanced ballet terminology and movement vocabulary in order to be prepared for the physical demands of dancing on pointe.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

DAA 1201 and/or appropriate level of competency approved by the instructor.

Note:

This course may be taken up to four times for credit.

DAA 2581 - Musical Theater Dance II

The continued study of Musical Theater dance techniques and styles as related to a specific performance experience, usually Summer Ensemble Workshop. Students must participate in rehearsals and performances.

Credit Hour(s): 1 Credit Hour When Offered: (Summer) Prerequisite(s):

level of competency determined by audition.

Note:

This course may be taken up to four times for credit.

DAA 2610 - Dance Composition

An introduction and practice in the application of compositional tools encourages the student to explore and compose dance. By studying the body's movement in time and space the student will improve technical skills, develop improvisation and choreographic skills and enhance overall dance performance. Previous dance experience is helpful.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Note:

This course may be taken up to four times for credit.

DAA 2682 - Dance Workshop II

This course includes continued instruction and participation in dance as required by specific productions, i.e., Theater/Show Choir.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

A demonstration of competency determined by audition.

Note:

This course may be taken up to four times for credit.

DAA 2683 - Performance Dance, (Repertory and/or Original Choreography)

This course includes the continuation of study and participation in all rehearsals of selected works of dance repertory and/or original choreography culminating in public performance.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):

Demonstration of competency determined by audition.

Note:

This course may be taken up to four times for credit.

DAA 2930 - Dance – Special Topics

This is a defined special topics course pursued under the supervision of a faculty member and recorded through usual departmental procedures. It is designed to permit a student to pursue non-scheduled academic and laboratory work that may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This course may be taken up to four times for credit.

DAN 1750 - Dance Conditioning

Dance Conditioning is an excellent course in which to begin your dance training. It is designed to improve fundamentals for the beginning/intermediate student through daily practice in floor work, yoga, and Pilates exercises. This movement class will get you ready to meet the challenges of other dance classes by toning, strengthening and preparing the body to move.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:

This course may be taken up to four times for credit.

DAN 2120 - History of Dance

This course is a study of the development of dance as an art form, as entertainment, and how it relates to the history of cultures and societies, emphasizing the evolution of dance in the specific genres such as ballet, modern dance, jazz dance, and world dance forms. Designed to heighten student awareness of dance as an integral part of society and establish an appreciation of dance's impact on the making of art. This course will give the student a foundation level understanding of dance as an art form and its historical and cultural significance. The major periods of dance history, master choreographers, and their works will be explored through lecture, discussion and media presentation. DAN 2120 is not an activity course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Dental Assisting DEA 0020 - Pre-Clinical Procedures Theory

This course is designed to provide an introduction to the dental assisting profession to include orientation to four handed dentistry and general dental office procedures including, but not limited to basic principles of disease prevention, patient data collection and assessment, and instrumentation. Emphasis is on adhering to safety guidelines as specified by OSHA.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020L .

Note:

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DEA 0020L - Pre-Clinical Practice Lab

This is a comprehensive chair side competency based course. The course provides the skills practice necessary for dental assisting students entering four handed dentistry practice including but not limited to infection control, taking and recording vital signs, assisting with operative procedures, principles of preventive dentistry, instrument identification, and use and maintenance of equipment. Emphasis is on aseptic technique and clinical competency with procedures performed in a contemporary dental practice.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DES 0103L .

Note:

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DEA 0130 - Allied Dental Theory

This course is a general study of the scientific and clinical concepts that include additional knowledge base necessary to the practice of dental assisting. Students will study the normal and abnormal conditions of the oral cavity such as dental caries prevention, the dental caries process and recognition of various common pathological conditions. Oral pathology, histology and

embryology are included. Emphasis is on the interrelationship of the information presented with the clinical practice of dental assisting.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DEA 0803L - Clinical Practice I

This competency based clinical course provides a real world setting in which to integrate the laboratory and clinical skills learned in the classroom. The student receives closely supervised hands on training in chair side dental assisting through rotations at community dental offices. Progress is evaluated using predetermined competency guidelines. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 90 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DEA 0020L .

Note:

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DEA 0851L - Clinical Practice III

This course is a continuation of Clinical Practice II, providing a real world setting for students to practice the training and clinical skills learned in class including x-ray film placement and cone positioning. The student is assigned to various offices in the community including specialty offices and general dentistry offices. Students assist the dentist and staff with various function of a Dental Assistant at a more advanced level of proficiency. Students must provide their own transportation and must have current CPR training along with up-to-date immunizations. Specific procedure requirements and 180 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 180 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DEA 0852L , DES 0205 , DES 0205L .

Note:

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DEA 0852L - Clinical Practice II

This course is a continuation of Clinical Practice I. It provides a real world setting for students to receive additional training in the clinical skills learned in class. Students are assigned to various offices in the community including but not limited to general dentists, oral surgeons, orthodontists, periodontists, and endodontists. Performance evaluations are utilized to measure competency and provide feedback from the local dental offices to the instructor regarding the students' competency level. Skills are strengthened in Seminar Lab. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 150 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 150 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DES 0400B

Corequisite(s):

DES 0830 , DES 0830L .

Note:

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Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0936 - Dental Assisting Seminar

This course is designed to provide a review of materials commonly covered on the Dental Assisting National Board (DANB) Exam. Topics include but are not limited to infection control, general chair side procedures, and radiographic technique. The seminar will provide a mock board examination, and opportunities for review, problem solving, and strengthening skills. The course also serves as an opportunity for feedback from students' Clinical Practice.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0852L , DEA 0803L , DES 0205 , DES 0205L

Corequisite(s):

DEA 0803L , DES 0206L .

Note:

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DES 0103 - Dental Materials Theory

This course is a comprehensive study of the theory of manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. The competency based lab that accompanies this course includes exercises to illustrate application and use of selected materials. Students will study various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, as well as acrylic plastics. Students will become familiar with various pieces of dental laboratory equipment and their uses.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103L , DEA 0020L .

Note:

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DES 0103L - Dental Materials Lab

This course is a comprehensive study of the manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. Emphasis is on practical application as it relates to the role of the dental assistant in the contemporary dental practice. It is a competency based lab that accompanies the theory course and includes exercises to illustrate application and uses of selected materials. Students practice the use of various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, and acrylic plastics.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DES 0103 , DEA 0020L .

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DES 0205 - Dental Radiology Lecture

This course is designed to introduce the theory, application and principles of radiographic exposure and processing techniques used in dentistry. Students will receive instruction including but not limited to historical data, radiation safety, exposure, processing, mounting and error prevention. Image interpretation of radiographic anatomical structures will be included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205L .

Note:

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DES 0205L - Dental Radiology Lab

This laboratory course assists students in radiographic performance techniques using DXTR manikins to achieve competency prior to exposure of various patients with varied dentitions. Students practice exposing, mounting, radiographic interpretation, safe darkroom procedures, identification of landmarks and distinguishing radiographic pathology from normal landmarks. Clinical radiographic skills necessary to produce diagnostic quality radiographs including bitewings, periapical radiographs, and panoramic x-rays will be covered. Emphasis is on patient and operator safety guidelines and producing diagnostic quality radiographs.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):

DES 0205 .

Note:

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DES 0206L - Dental Radiology Lab II

This laboratory course assists students in additional radiographic performance techniques to include surveys on patients with varied dentitions. Students practice more advanced radiographic exposure techniques, interpretation, additional darkroom procedures, identification of landmarks and distinguishing various radiographic pathology. Clinical radiographic skills necessary to produce diagnostic quality x-rays including but not limited to bitewings, periapical radiographs, and panoramic surveys on actual patients will be covered. Emphasis is placed on patient and operator safety guidelines and producing diagnostic quality radiographs during this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0400B , DEA 0020 , DEA 0020L , DES 0205L

Corequisite(s):

DEA 0851L .

Note:

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DES 0324 - Interpersonal Communications Skills

This course is designed to implement interpersonal and effective communication skills in the practice of dentistry. It includes team building strategies, oral and written communications skills with the correct use of terminology commonly used in dentistry. Professionalism in verbal and nonverbal communications is emphasized. Students will be introduced to the legal and ethical scope of responsibilities for dental assistants and interpersonal relations in the dental office. Providing oral health instructions and post operative instructions for patients will be introduced. Scenario-based role playing is used to augment student learning of course content.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DES 0400B - Dental Anatomy

This course provides a detailed study of the orofacial and related structures of the head and neck including, but not limited to the eruption, identification and function of the human dentition, study of bony, circulatory, muscular and nervous systems of the head, neck and surrounding structures associated with the oral cavity. A brief introduction to oral histology and embryology will be included.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Note:

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DES 0501 - Dental Practice Management

This course includes theory and content relating to practical administrative duties performed in the dental office. Lectures and role playing activities are related to the responsibilities of the dental assistant. Topics include but are not limited to appointment scheduling, billing, collections, record keeping, clerical and dental supply inventory. Students are introduced to the use of dental practice software with hands on computer experience. Legal responsibilities, interpersonal relations, and interview skills are included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DES 0205 , DES 0205L

Corequisite(s):

DEA 0936 .

Note:

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DES 0602 - Pharmacology and Dental Office Emergencies

This course is designed to familiarize the dental assisting student with the basic concepts and considerations regarding pharmacology and pharmaceutics used in dentistry. Topics presented include nitrous oxide monitoring, emergency procedures and protocol. Lectures will include recognition of emergency conditions in the dental office, not limited to syncope, anaphylaxis, and cardiovascular incidents. Emphasis is placed on the role of the dental assistant in the prevention and management of dental office emergencies.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DES 0830 - Expanded Function Theory

This course introduces the dental assisting student to the dental specialty practices and more advanced clinical skills. It also provides the theory of dental specialty practice administration as it relates to the role of the dental assistant including ethical and legal ramifications. Lectures relate topics including but not limited to dental specialty procedures, instruments used in the specialty practices and duties delegated to dental assistants according to the rules and regulations of the Florida Dental Practice Act. Role playing and problem solving activities using case studies relate to duties delegated to dental assistants.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830L .

Note:

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DES 0830L - Skills Seminar

This laboratory course accompanies the clinical practice lecture course DES 0830 and provides opportunity for students to practice application of the duties delegated to dental assistants according to the Florida Dental Practice Act. Students become more proficient in more advanced skills. Competencies containing information and behavioral objectives allow students to master each skill before advancing to the next.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830 .

Note:

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DES 0844 - Dental Science

This course is a general study in biomedical sciences of preventive dentistry to familiarize the dental assisting student with basic principles of microbiology, basic body structures, and their functions and effects as manifested in the oral cavity. The course also covers the effects of nutrition and the role of microorganisms in dental health and blood borne pathogens.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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Domestic Security DSC 1002 - Domestic and International Terrorism

This course is designed to assist students in recognizing and understanding the elements and objectives of terrorism and 4th Generation Warfare and how they affect public safety planning and response operations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1004 - Introduction to NRF and NIMS

Designed to inform emergency responders and planners of the key elements in the National Response Framework (NRF) and the National Incident Management System (NIMS) and their relationship to planning and response operations. The curriculum includes classroom exercises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1222 - Psychological Management of Disaster Victims

This course introduces students to a general overview of terrorism and the potential psychological effect of terrorist events on victims.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1552 - Critical Infrastructure Protection

This course introduces participants to the Critical Infrastructure Protection (CIP) process to secure the effective protection of the people, physical entities, and cyber systems that are critical. The CIP course will guide leaders in the systematic protection of

critical infrastructures. More basically, the course will introduce decision sequence that assists leaders and future leaders in ultimately determining exactly what really needs protection as well as when. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1562 - Homeland Security Threat Strategy

This course addresses problems of terrorism from a criminal justice perspective. It is designed to provide students with an understanding of the major issues associated with responding to terrorism in a democratic society. The course focuses on the threat of terrorism to the United States and will review specific strategies to deter terrorist threats to the U.S. The course will assess the relative effectiveness of anti-terrorist activities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1631 - Planning Considerations for Terror Prevention

This course introduces participants to various aspects of planning for potential terrorist activity. The student will be introduced to basic principles of emergency management, communications, security threats, and the effects these operations may have on personnel. The student will learn techniques for evaluating their own jurisdiction’s vulnerability against terrorist attacks. Students will gain knowledge of the roles and responsibilities of local agencies during terrorism responses. The course introduces participants to various aspects of emergency management of terrorist activity.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1751 - Homeland Security Policy and Law

This course introduces participants to the major debates about balancing democratic freedoms with security from the Patriot Act to Supreme Court decisions on detention powers. The course provides insight into legal strategies necessary to confront ongoing national security threats. The course examines laws designed to preserve both our security and our democratic way of life.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 2056 - Disaster Response Operations

This course examines the response protocol, logistics, responsibilities, interagency support, and concepts of front end planning involved in preparation for a catastrophic event. Students will be introduced to the development of an emergency response plan that will include concepts such as lookout, awareness, communications, escape, safety (laces), training, and various agency relationships.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Drafting and Design EGN 1111C - Engineering Graphics

Covers the use of instruments, lettering practice; geometric construction; multiview projection and conventions, auxiliary views, section views, axonometric and oblique projections, rotation, patterns and development, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1102 or equivalent: prerequisite only applies to Architectural Drafting and Design students.

EGN 1130C - Descriptive Geometry

Covers basic principles of orthographic projection, auxiliary views and rotation as they apply to points, lines and planes in space; addition of coplanar and non-coplanar vectors; intersections and developments; and selected abstract, exponometric and oblique projection, and practical problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
EGN 1111C or equivalent.

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1112 - Mechanical Drafting I

The second of a sequence of courses in drafting which includes basic use of instruments, freehand lettering, geometric construction, orthographic projection, sections and conventional revolutions, dimensioning, inking, mechanical lettering, methods of reproduction, and developing computer-aided drafting skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 1102 and ETD 1320C or equivalent

Corequisite(s):
ETD 1217 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
for Drafting and Design student course should be taken with ETD 1102 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1320C - AutoCAD I

A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1102 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1320C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1801C - Technical Illustration

The purpose of this course is to help students develop the skills, knowledge, and attitudes necessary to be job entry-level qualified as technical illustrators.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1112 or EGN 1130C , and ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2150 - Industrial Print Reading

The beginning level aspects of reading industrial prints such as drawing notes, title blocks, revision blocks, legends, schedules, multiviews, and parts list.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2219 - Advanced Geometric Dimensioning and Tolerancing

An advanced course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definitions and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, math for positional tolerancing, quality assurance methods and techniques, and manufacturing methods and techniques.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 2218 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2250 - Tolerance Stacks I

A course for engineers, designers, inspectors and other engineering personnel. This course consists of learning how to perform tolerance accumulation studies within a part or assembly to include: coordinate dimension stacks and stacks involving geometric tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 2218 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2350C - AutoCAD III

An advanced course designed to help students develop proficiency in the area of computer aided drafting and systems drafting. Topics covered include: transfer drawings, digitized drawings, explanatory drawings, multiview projections, exploded assemblies, pictorial drawings, auxiliary views, sections, details, geometric dimensioning and tolerancing, and CADD concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 1340C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-

Curriculum Course.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1102 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

ETD 2357C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

ETD 1320C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2364C or higher or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2377C - 3D Studio Max I

Course is designed to use 3D Studio in rendering, and animation as a dynamic visualization tool for AutoCAD design images. Upon completion of this course, the user will be able to navigate through the modules of the program, model simple projects, set up scenes for rendering and animation, assign materials to objects, and define simple motion paths, input and output techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1355C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2395C - Architectural Desktop for Architecture

A basic course in 3D Architectural Modeling using AutoDesk Architectural Desktop Software. Topics include: introduction to Architectural Desktop, creating floor plans, modifying walls, advanced wall features, placing doors and windows, door and window assemblies, creating roofs and roof slabs, creating slabs for floors and ceilings, creating elevations, sections and details, and annotation and documentation.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1320C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2542 - Structural Drafting

A course in the fundamentals of structural drafting including: an overview of structural drafting, prestressed concrete drafting, structural steel drafting, and poured on-site concrete drafting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

TAR 2121C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2543C - Structural Drafting II

An advanced course in structural drafting covering prestressed concrete drafting, structural steel drafting, and poured-on-site concrete drafting for large commercial and industrial buildings as well as bridges, parking decks, towers, and stadiums.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 2542 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2571 - Construction Drafting

A course to prepare students to develop shop drawings for large construction projects. Topics covered include: steel, precase concrete, prestressed concrete, poured-in-place concrete, and heavy timber construction projects.

Credit Hour(s): 6 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EGN 1111C or ETD 1112 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2731 - Mechanical Drafting II

A course that continues and completes the student’s study of the fundamentals intrinsic to all types of drafting. Topics covered include isometric, diametric, trimetric, oblique, and perspective projection, descriptive geometry, auxiliary views, related mathematics, precision dimensioning developing computer-aided drafting skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1112 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2735 - Mechanical Drafting III

A course that continues and completes the student’s study of the fundamentals intrinsic to all types of drafting. Topics covered include: isometric, diametric, trimetric, oblique, and perspective projection, descriptive geometry, auxiliary views, related mathematics, and precision dimensioning developing computer-aided drafting skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 2218 or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2802C - Technical Illustration II

The purpose of this course is to help students develop advanced skills, knowledge, and attitudes necessary as technical illustrators, to include oblique, and axiometric projections, perspective and exploded pictorial drawings, and related techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

ETD 1340C or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2905 - Independent Study – Drafting

Practical treatment of special geometry, graphics, and design with emphasis on individual work projects utilizing such graphical techniques as orthographic projection, perspective drawing, auxiliary views, topographic drawing, and graphing.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

EGN 1111C and ETD 1112 or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
* This course may be taken up to four times for credit.

ETG 1941 - Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Early Chilhood Education DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1002 - Early Childhood Program Administration

This course provides the student with management and administrative skills related to child care services. Instruction includes: director responsibilities; staff selection, supervision, and evaluation; planning for budget, nutritional services, facility maintenance, health, and safety; and marketing techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1201 - Infants and Toddlers

This course provides the student with information pertinent to the care of infants and toddlers. Special attention is given to selection of developmentally appropriate curriculum. Course work satisfies the Child Development Associate competency standards for Infant/Toddler.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

EEC 1401 - The Family In Early Childhood Education

This course is comprehensive in scope, emphasizing skills and concepts of parenting which include: adjustment to parental roles; parent-child communication, care, growth, and development of children; cultivating strong families; special concerns; alternative family structures; educational institutions working effectively with parents; and agencies and legislation affecting children and parents.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 1601 - Assessment in Early Childhood Education

Designed to increase objectivity and proficiency in observing and interpreting children's behavior in addition to increase awareness of normative patterns of children from birth through five years of age.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EEC 1750 - Guidance for Young Children

A study of principles, methods, guidance and discipline techniques used to promote positive social development in young children; influence of environment and developmental level of child on social behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:

DEP 2100 , and EEC 1309 or EEC 1201 .

EEC 2218 - Instructional Strategies in Early Childhood Education

Study of and development of effective skills and techniques used in program planning and use of creative media for young children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EEC 1309 .

EEC 2220 - Language and Literacy Instruction In Early Childhood Education

Study of the principles, methods, and materials used to assist young children acquire basic skills to use language effectively and competently; evaluation and development of appropriate teaching materials to use with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

EEC 1309 .

EEC 2222 - Math and Science Instruction In Early Childhood Education

Study of the basic concepts, methods, and materials of mathematics and science appropriate to the education of young children. Identification of the role of staff members in the center for the education of young children. Assignment with young children in community agencies.

Credit Hour(s): 3 Credit Hours When Offered: (Spring and as needed) Prerequisite(s):

EEC 1309 .

EEC 2732 - Child Nutrition, Health and Safety

Methods of meeting physical needs of young children through nutrition and good health practices. Recognition of childhood diseases and care of the handicapped child.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 2930 - Child Development Seminar

This course focuses on current trends and issues in the field of early childhood education. The topic will vary based on current trends and issues.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This course may be taken up to three times for credit.

EEC 3213 - Teaching the Language Arts In Early Childhood Education

The focus of this course will be on the development of language and literacy in children ages birth through age four. Emphasis will

be placed on understanding the process of emergent literacy including vocabulary and language, phonological awareness, print knowledge and comprehension; and on designing a developmentally appropriate language arts program in relation to the early learning and developmental standards. This course will require observing and participating in an early childhood classroom.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

EEC 3227 - Art, Music, and Movement

The focus of this course will be on developing an understanding of the creative developmental process in the life of children from birth through four years old. Emphasis will be placed on the teacher's role in developing opportunities and materials for young children to express themselves creatively through music, drama, dance and two- and three-dimensional art and on providing varied opportunities for young children to gain an appreciation of art, music, drama, and dance in ways that reflect cultural diversity in relation to the early learning and developmental standards. This course will require observing and participating in an early childhood classroom.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 3320 - Principles and Methods for Teaching Early Childhood Social Studies

This course is designed to prepare students to teach social studies In the early childhood classroom. Emphasis is on implementing the project approach to investigate components of social studies to include: individual development and identity; people, places, and environments, technology and our world; and civic ideals and practices. The student will increase and apply knowledge and skills in the Florida Early Learning and Developmental Standards relevant to this content area.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 3511 - Curriculum for Infants and Toddlers

The focus of this course will be on the design, implementation and evaluation of programming and curriculum that promotes growth and development of young children birth to three years old and aligns with the early learning and developmental standards. Study of typical and atypical development will be included. Emphasis will be on working effectively with families of infants and toddlers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 3524 - Professionalism/Program Development

Focus of this course will be on management and leadership in early childhood education programs. Topics will include mentoring adults, professional development, staff assessment, program evaluation, and child advocacy. Career options in the field of early childhood education will be explored. This course will require observing and participating in a program or agency related to early childhood education.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

EEC 4404 - Families and Diversity

This course will focus on building positive relationships with families through communication and involvement. Focus will include developing an awareness of diversity and multicultural considerations in working with families of young children. The course will explore the role of the family and the influence of the community on the development of young children in a diverse society; and will prepare the student to work effectively with families and communities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 4421 - Teaching Math and Science in Early Childhood Education

The focus of this course will be on developing an understanding of how concepts, skills and attitudes in early childhood mathematics and science are developed in young children ages birth through age four. Math topics will include number sense and operations, patterns, geometry, and measurement. Science topics will include scientific inquiry, physical science, life science and earth science. Emphasis will be on the alignment of the Early Learning and Developmental Standards with a developmentally appropriate approach to teaching math and science in the early childhood classroom. This course will require observing and participating in an early childhood classroom.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

EEC 4613 - Systematic Observation and Assessment

The focus of this course will be on understanding the purpose of child assessment, implementing developmentally appropriate practices in formal and informal child assessment, and using assessment results to support learning, to identify special needs, to evaluate programs, and to respond to program accountability requirements. A field experience is required to practice various methods of assessment in an early childhood setting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEX 3604 - Classroom Management in Early Childhood Education

The focus of this course is on implementing effective classroom management practices including establishing an appropriate physical environment, setting up appropriate classroom routines and rules and creating a positive classroom community. Emphasis will be on strategies for guiding children's behavior, teaching social problem-solving skills and responding appropriately to challenging behaviors.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEX 4201 - Young Children with Special Needs

The focus of this course will be on working with young children birth through age four in an inclusive early childhood classroom. Emphasis will be on identifying typical and atypical development, creating an inclusive early childhood learning environment, understanding special education law, developing an awareness of resources for inclusive practice to meet the needs of young children and their families.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Earth Science ESC 1000 - Earth Science

This course provides an introduction to materials, processes, and interactions of Earth’s global environments – the lithosphere (solid earth), hydrosphere (water earth), atmosphere (gaseous earth), and biosphere (living earth). It also includes a survey of sciences pertaining to the Earth, including basic astronomy, meteorology, oceanography, and geology.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ESC 1000L - Earth Science Lab

Laboratory experiences pertaining to the physical environment: observation, measurement, data analysis, mapping, map interpretation, and properties of earth materials. This is an optional course serving students who transfer to universities which require a laboratory course to satisfy the General Education requirement in Physical Science.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer)

Economics ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

ECO 2023 - Economics II

This course covers microeconomics, including economic structures, price theory, factor markets, and general equilibrium. It also includes the economics of information, externalities, and other current national and international issues.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, or as needed) Prerequisite(s):

ECO 2013 or equivalent.

Education EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EDF 3910A - Projects in Teacher Education

Directed study and individual projects designed to meet the needs of Teacher Education students completing an artifact required in the B.S.E. program. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

upper division standing

EDF 3910P - Projects in Teacher Education – Field Placement

Directed study and individual projects designed to meet the needs of Teacher Education students completing field experience in the B.S.E. program. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

upper division standing

EDF 3911 - Independent Research in Teacher Education

Directed study and individual projects designed to meet the needs of students completing field experience and artifact required in the B.S.E. program. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C

EDG 3410 - Classroom Management, School Safety, Law, and Ethics

Practicing teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. This course is restricted to practicing teachers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Online Only Prerequisite(s):

upper division standing.

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing with permission of department chair.

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3343 and EDG 3410C

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum Grade of "B" in any college-level science course and permission of instructor.

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4312C - How Children Learn Math

This course is designed to develop the skills and concepts necessary to deliver the mathematics curriculum effectively in the classroom. The content strongly reflects the curriculum emphases of the National Council of Teacher of Mathematics, and topics are presented using a process-oriented approach. This course requires a grade of "C" or better. Current background check

(fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4930C - Seminar in Math Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in mathematics, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

MAE 4940C - Teaching Methods in Middle Grades Math Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3324C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 3511 - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/ literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a minimum grade of "C" or better and is restricted to practicing teachers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upper division standing

Prereq/Corequisites:

EDG 3410C , EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

TSL 3081C and upper division standing

Prereq/Corequisites:

EDG 3410C and EDG 3343

Educational Psychology EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Electronics CET 2114C - Digital Fundamentals

This is the fourth and last course required for the electronics aide certificate. This is an introductory course for digital circuits, fundamentals, concepts, and design. Areas covered will include number systems, logic gates and circuits, and Boolean algebra. Digital devices covered will include decoders, encoders, multiplexers, demultiplexers, flip-flops, counters, and registers used in the application of combinational and sequential logic. Analog-to-digital and digital-to-analog conversion will be covered. Laboratory exercises will cover measurement and analysis of digital circuits and devices using digital test equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1141C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1015C - Electricity/Electronics I, DC Circuits

This is the first course required for Electronics Aide certificate. This course introduces the theories, concepts, and relationships of voltage, current, and power in DC series, parallel, and series/parallel circuits containing common circuit elements with single and multiple sources. Students are introduced to Ohm's Law, Kirchoff's voltage and current Laws, Thieving's, Norton's, super-position, and maximum transfer of power theorems and their uses in DC circuit analysis. Students will learn how to use a digital multimeter to trouble shoot and analysis DC circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1025C - Electricity/Electronics II, AC Circuits

This is the second course required for Electronics Aide certificate. This course introduces the theories, concepts, and relationships of voltage, current, and power in AC series, parallel, and series/parallel circuits containing common circuit elements with single and 3-phase sources. Students will apply Ohm's Law, Kirchoff's voltage and current Laws, Thieving's, Norton's, super-position, and maximum transfer of power theorems and their uses in AC circuit analysis. Included will be the use of a multimeter and oscilloscope for experimentation with and trouble shooting AC circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1015C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1141C - Solid State Electronics

This is the third course required for Electronics Aide certificate. This course introduces the student to the concept, components, and uses of solid state electronics. Topics include semiconductor devices; thyristors and diodes, transistors, amplifiers, power supplies, oscillators, and optoelectronics. The use of capacitors and inductors in solid state electronics will be also covered. The design, set-up, and troubleshooting solid state circuits and devices using various power supplies and function generators will be dispersed throughout the class.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1025C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1180C - Industrial Electronic Troubleshooting

This course covers troubleshooting procedures for a variety of electronic equipment and circuits common to industrial applications. The student will develop and implement trouble shooting protocols and plans, equipment monitoring plans, a preventive maintenance plan, and select appropriate test and monitoring equipment. Safety in an industrial setting will be stressed and reinforced through a series of lab exercises throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2155C - Linear Integrated Circuits

This course covers the fundamentals and applications of linear integrated circuits and operational amplifiers. The course covers includes inverting and non-inverting amplifiers, comparators, signal generators, differential and instrumentation amplifiers, operational amplifier specifications, active filters, modulator-demodulator integrated circuits, timers, analog to digital converters (ADC), and digital to analog converters (DAC) and measurement and analysis of linear circuits and devices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1015C , EET 1025C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2190C - Industrial Electronics

This course investigates the applications of electronic and electrical systems common to industrial processes. The concepts and

applications for polyphase circuits and three phase power will be explored and how they apply to industrial electrical power conditioning and management. The use of Computer Management Integration (CMI) and how they relate to industrial electronics will also be covered. Applications will include testing and troubleshooting industrial mechanical electronic circuits, analyzing industrial electronics and contributing systems failures to establish a maintenance plan, and evaluate the need for replacement, overhaul, and or upgrading of industrial electronic equipment. Safety will be covered and stressed throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2215C - Industrial Electronics Test & Measurement Instrumentation

This is an introductory course into the application, operation, and maintenance of industrial electronic test and measurement instrumentation used in manufacturing. Equipment covered will be DMMs, oscilloscopes with probes, function generators and analyzers, logic analyzers, and complete instrument systems to include automatic test equipment (ATE). Also covered in this course is terminology common to industrial instrumentation, error probabilities, degree of accuracy required, units, and standards used for reporting raw and analyzed results. Both standard and metric measurements will be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETS 1511C - Motors and Controls

This course explores the theory and application of AC and DC motors, types of single-phase motors, three-phase power, three-phase motors, remote and local control, forward and reversing motor starters, and various motor control circuits. Wiring and troubleshooting exercises of electric three-phase motor control circuits are emphasized in a wide range of applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1084C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.
(Course number pending)

Engineering Technology EET 1084C - Introduction to Electronics

This course introduces the fundamentals, terminology, and applications used in the electronics industry. The topic coverage will include circuit theory principles, electronic components, transistor usage, amplifiers, power supplies, digital logic techniques, and electronic instruments. The course will also include some basic laboratory exercises to strengthen the topic coverage as it pertains to measurement involving both analog and digital circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETD 2371C or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETM 1010C - Mechanical Measurement and Instrumentation

This course provides the foundation for mechanical and electronic measurement techniques used in manufacturing environments. The course will integrate the concepts, principles, and techniques of mechanical measurement with the use of various types of instruments including micrometers, verniers, calipers, height gages, digital multimeters and other types of measuring equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

English CRW 2001 - Creative Writing I

Instruction and practice in writing fiction and poetry. Students will submit a poetry portfolio and complete at least one short story.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CRW 2002 - Creative Writing II

Advanced work in poetry and prose modes with emphasis on revision. Students will submit a poetry portfolio and write and revise at least one complete short story. Students will prepare creative work for publisher market.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CRW 2100 - Introduction to Fiction Writing

Practice in writing fiction using various points-of-view. Students will submit completed short stories for workshop. Upon agreement with the instructor, students may elect to develop novel chapters with synopsis. Students will prepare creative work for publisher market.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CRW 2201 - Introduction to Creative Nonfiction

This writing course examines the narrative possibilities of creative nonfiction. We will explore structure, technique, and authorial presence in representative works of established sub-genres, including literary journalism, travel and/or food writing, memoir, the lyric essay and collage.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CRW 2300 - Introduction to Poetry Writing

Practice in writing poetic forms employing poetic techniques. Students will workshop completed poems and submit a portfolio of revised poetry. Students will prepare creative work for publisher market.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CRW 2302 - Intermediate Poetry Writing

This course builds on poetry writing skills developed in CRW 2300 . Students will examine styles and techniques of contemporary poets and develop a portfolio of original work with attention to the revision process. Students will prepare creative work for publisher market.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

CRW 2300 .

CRW 2600 - Writing Scripts for Film and Television

This course offers an introduction to the theory and practice of writing scripts for television and film. Students will develop a body of original work with a goal toward publication.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

ENC 0015 - Developmental Writing I

This course is designed to develop written language skills for students whose entry level placement scores do not meet requirements for degree credit (not applicable for degree completion). Basic sentence structure, paragraph organization, grammatical concepts, usage, and elementary punctuation will be emphasized. Approximately one-half of instruction will be focused on composing coherent, well-structured paragraphs. Students must pass this class with a "C" or better to move on to ENC 0025 .

Credit Hour(s): 4 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Score 50-89 on the PERT

Corequisite(s):

SLS 1101 .

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

ENC 0025 - Developmental Writing II

This course is designed to develop written language skills for students whose entry level placement scores do not meet requirements for degree credit (not applicable for degree completion). The course includes practice in writing paragraphs and essays, and provides a survey of grammar and mechanics (not applicable for degree completion). Students must pass the class with a "C" or better and obtain a passing score on the Departmental Exit Exam.

Credit Hour(s): 4 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Grade of "C" or better in ENC 0015 or score of 90-102 on the PERT or on an elective basis score of 103 or higher on the PERT.

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

ENC 0056 - Developmental Writing Module

This course is designed to develop written language skills for students whose entry placement scores do not meet requirements for degree credit courses (not applicable for degree completion). Conducted in a lab setting, this course is self-paced course, designed to allow students to focus on their individual grammar, usage, and writing needs to prepare for successful entry into college credit English courses (not applicable for degree completion). This course may be taken in place of ENC 0025 if a student has a placement score of 98-102 on the PERT. Students may exit Developmental Writing Module by passing the coursework and by obtaining a passing score on the Departmental Exit Exam.

Credit Hour(s): 2 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Students must score 98-102 on the PERT or on an elective basis score 103 or higher on the PERT.

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

▲ Technology-Across-the-Curriculum Course

ENC 1101L - English Composition I Lab

An instructor directed writing workshop designed to improve student's opportunity for success in ENC1101. Students will strengthen writing and grammar skills necessary to master the topics and concepts covered in ENC1101. Areas of focus include, but are not limited to, the following: expository and argumentative writing; appropriate diction; conventions of Standard American English grammar, punctuation, sentence structure; conventions of MLA.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ENC0025 and REA0017 or equivalent with a "C" or better grade or appropriate placement scores or exempt from developmental studies.

Corequisite(s):

ENC 1101

ENC 1102 - English Composition II

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of ENC 1101 or an equivalent course with a grade of “C” or better.

ENC 2210 - Technical Report Writing

The course covers the fundamentals of technical report writing, mechanics, and style. Various types of reports are prepared and

evaluated. The course also includes reading and analysis of technical literature as well as oral reporting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

passing score on placement test.

ENG 1001 - Research Papers

A learn-by-doing course in the methods of conducting library research and writing a documented paper. Students will work on self-selected subjects under the supervision and guidance of the instructor in a tutorial relationship. For successful completion, each student will write a documented paper in accordance with a standard system. This course may be taken four times for credit.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:

This course may be used as a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. Students may use this course to satisfy deficiency in the Gordon Rule writing requirement, but it may not be used in lieu of traditional Gordon Rule courses, such as ENC 1101.

LIN 1670 - Writing and Grammar

The course includes practice in writing short essays and encompasses a comprehensive review of grammar and mechanics. This course is strongly recommended for students who have completed Developmental Writing, those who want a preparation for Composition, or those who score 103-116 on the PERT.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

A passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a minimum grade of "C", or exemption from placement testing.

English as a Second Language (ESOL) XEL 01___ - ESOL I

This course provides small group and individualized instruction in both oral and written English communication skills at the beginning level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 02___ - ESOL II

This course provides small group and individualized instruction in both oral and written English communication skills at the low beginning level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 03___ - ESOL III

This course provides small group and individualized instruction in both oral and written English communication skills at the high beginning level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 04___ - ESOL IV

This course provides small group and individualized instruction in both oral and written English communication skills at the low intermediate level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 05___ - ESOL V

This course provides small group and individualized instruction in both oral and written English communication skills at the high intermediate level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 06___ - ESOL VI

This course provides small group and individualized instruction in both oral and written English communication skills at the advanced level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 07___ - ESOL VII

This course provides small group and individualized instruction in both oral and written English communication skills at the advanced secondary level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

Environmental Sciences EVR 1001C - Environmental Science

A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

EVR 1940 - Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Minimum grade of "B" in any college level science course and permission of instructor.

Fire Science FFP 0010 - Firefighting I

This course is the first part of the Basic Fire Recruit Academy and prepares students for a career as a volunteer firefighter. Classroom instruction includes a variety of fire related topics which are reinforced and enhanced through practical skills activities. Upon completion, the student is eligible to test for certification as a volunteer firefighter through the Florida State Fire College and may elect to continue training in Firefighter II to pursue state certification as a career firefighter. Permission of the Public Safety Division is required.

Credit Hour(s): 225 Clock Hours When Offered: (Offered as needed) Corequisite(s):

FFP 1140 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

FFP 0020 - Firefighting II

This course is the second part of the Basic Fire Recruit Academy and prepares students for a career as a firefighter. The delivery of instruction includes a variety of training in practical skills necessary for the mastery of the basic competencies required in the program. Upon successful completion of this course, the student is eligible to take the Bureau of Fire Standards and Training written and practical examination. Permission of the Public Safety Division is required.

Credit Hour(s): 225 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

FFP 0010 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

FFP 1140 - First Responder for Public Safety Personnel

This course introduces the student to the skills and techniques used for first response to medical emergencies. Classroom instruction includes a variety of medical related topics encountered by public safety personnel. Practical exercises and scenarios are included to enhance classroom instruction and skill development.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1301 - Fire Service Hydraulics

Introduction to the study and characteristics of hydrostatics and hydrodynamics in the fire service; to include basic hydraulic measuring units, facts, theories, and formulas for problem solving. The course covers the relationship between flow and pressure and mathematical hydraulic formulas.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1302 - Fire Apparatus Operations

The curriculum covers the laws, rules and driving techniques for emergency vehicles, as well as an introduction to fire service hydraulics. Fire ground evolutions and pumping operations make up the practical part of the course. The evolution portion of the course includes the calculation of friction loss in hose and appliances, calculation of gallons per minute needed in fire streams, use of pre-connected lines, tandem pumping, drafting, relays and master streams.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1505 - Fire Prevention Practices

This course is a survey of the principles of fire prevention and investigation. It includes a study of fire hazards in various occupancies; a review of fire prevention codes; a study of procedures and techniques of fire prevention inspection, to include surveying and mapping, recognition and elimination of fire hazards, public relations, methods of determining the area of fire origin, fire cause, fire spread and location and preservation of evidence.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1510 - Fire Service Codes and Standards

This course is a study of building and life safety codes in relation to types of occupancies, building design, fire resistance of building materials, fire problems inherent in structures and life safety considerations. A problem solving emphasis is used to provide opportunities for application of building and life safety code enforcement methods to prevent and correct building design problems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1540 - Private Fire Protection Systems I

This is a study of private fire protection and detection systems, such as sprinkler and standpipe systems, chemical extinguishing systems, detection systems and devices. Each system is discussed as to its need, construction, preventive maintenance and individual uses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1740 - Fire Service Course Delivery

The curriculum draws from many recognized authorities in exploring the methods and mechanics of imparting information and adult learning principles. The course emphasizes techniques which have wide application in teaching situations, as well as devices for specific areas. Also stressed are measuring teaching effectiveness, the use of media and visual aids.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1800 - Disaster Education for Individuals and the Community

This course provides a study of the design, development, and delivery of public disaster safety education and programs including: methods of identification of disaster safety programs, the selection of target programs and strategies of affect reduction, methods of designing and implementing information and educational programs, and methods of evaluating a program’s impact. Studies include theoretical and practical skills training in individual, group, and mass media communications, instructional skills, planning priorities, and evaluation techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1801 - Introduction to Emergency Management

This course will discuss emergency management practices and how they relate to natural and man-made disasters. It is designed to help the student develop an understanding of overall emergency management principles, practices, and standards in the local, national, and international environments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1810 - Firefighting Tactics and Strategy I

This course is a study of the basic concepts involved in firefighting, including the behavior, firefighting fundamentals and principles of extinguishment, the proper role for a utilization of various fire companies, and pre-planning fire problems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1826 - Incident Management

This course contrasts the major forms of Incident Management/Incident Command Systems. It illuminates these differences and offers a fresh perspective on the concepts on which these systems are founded in order to make them more accessible and user-friendly. It bridges the gap between their theoretical and academic foundations and their real-world applications, and makes them more applicable to the professional’s daily needs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1880 - Public Policy in Emergency Management

This course provides the student specialized knowledge and skills necessary to develop public policy related to emergency management, providing public policy leadership in the area of emergency management as part of the larger responsibility to protect the general welfare of the people. Topics of discussion include: government disaster programs; agency participation, policy design and implementation, and administrative processes involved in managing disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1881 - Emergency Management Leadership

This course provides the student with the knowledge and skills necessary for effective interpersonal relationships, including conflict management and the use of power and influence as they apply to emergency administration and leadership. It addresses the budget process and related administrative duties of an emergency management program manager.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1890 - Emergency Management Principles for Tourism and Hospitality Industry

This course analyzes emergency management functions and responsibilities within the tourism and hospitality industry. Particular emphasis is placed in the areas of administration, organization, communications, and human relations. Students will learn how historical mistakes can influence human response to disaster situations, and some of the current legal and human challenges posed when dealing with disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2111 - Fire Chemistry

This course is a study of basic definitions of the chemical characteristics applicable to the chemistry of fire; it also discusses combustion, the principles of fire, heat measurement, heat transfer, and heat energy sources (sources of ignition). Emphasis is on emergency situations and the most favorable methods of handling firefighting and control.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2521 - Construction Documents and Plans Review

This curriculum provides the student knowledge of how to assimilate information contained in working drawings and specifications as they relate to the fire inspector. The curriculum includes how to interpret conventional graphic communications. Accepted standards and conventions are introduced. Symbols, abbreviations, principles of technical projection, as well as, a review of construction arithmetic and geometry are included.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2610 - Fire Cause and Origin

Study of cause and origin of fires with emphasis on fire inspector's or fire officer's role in the investigation process. The course deals with determination of fire cause and origin, collection of evidence, and investigator's preparation for trial.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2706 - Fire Service Public Information Officer

This course prepares the student to serve effectively as an organizational spokesperson, according to the current practices in the profession of public relations in relationship to the Fire Service. Particular emphasis will be placed on case studies in crisis communications and the role of the Public Information Officer (PIO) in the Incident Command System (ICS).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2720 - Company Officer

Designed to assist fire officers in solving the varied problems and situations they will be required to manage effectively in today's ever changing fire service. The curriculum includes a review of fire department organization and administration, management theory, leadership, communication, motivation, and small group dynamics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2741 - Fire Service Course Design

This course covers the principles of effective curriculum design. It stresses the principles of adult learning and student-centered learning. Designing courses and units that address learning, performance, and behavioral objectives is the program goal. The curriculum is intended to facilitate the development of nationally applicable performance standards for uniformed fire service personnel. It is the goal of the Florida State Fire College and the Bureau of Fire Standards and Training to provide a comprehensive program that, when completed, the prospective instructor will have the knowledge and skills to present and or develop a training curriculum.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2770 - Ethical and Legal issues in Fire Service

This course teaches the federal, state, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of relevant court cases. It also includes labor relations, human rights and diversity, conflicts of interest and frameworks for ethical decision-making.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2780 - Fire Department Administration

The course is designed to present the principles of management theory, and its application in the fire service. The course is intended for officers whose area of responsibility encompasses long and short range planning, budgeting and administration.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2811 - Firefighting Tactics and Strategy II

This course is a study of the principles utilized on the fire ground for maximum manpower and equipment utilization; fire ground administration starting with a small fire on up through major conflagrations. Emphasis will be on developing thinking skills in relation to crises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

FFP 1810 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2820 - Emergency Preparedness

This course teaches all aspects of emergency preparedness and planning related to natural and man-made disasters, and basic principles of emergency management. Planning concepts and the planning process will be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2823 - Technical Applications in Emergency Management

This course explores issues and problems associated with the use of technology in emergency management. It examines strategies to overcome these issues and problems. Some of the subjects treated are use of the Internet, spatial analysis applications in vulnerability analysis, decision support systems, and emerging technologies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2834 - Societal Issues in Disaster Management

This course examines human response to disaster events, including political and economic factors influencing vulnerability. It examines how individuals and institutions make decisions at all levels of disaster response, it is an introduction to current research pertaining to the sociological aspects of disaster, and it will provide increased awareness of the potential and difficulties in using social science research as a basis for modifying public policy.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2841 - Contingency Planning for the Private Sector

This course is designed to assist students in developing effective public sector plans by using the National Incident Management System and the Incident Command System templates. The curriculum includes case studies and development procedures for private sector logistics management and employee support planning.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2905 - Independent Study: Emergency Management

A defined independent study which is pursued under direct supervision of a faculty member and recorded through departmental procedures. Designed to provide an in depth exploration of a special or advanced topic in the Emergency Management field. Activities include targeted readings and research, as well as a final project or portfolio. Departmental approval is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

French FRE 1120 - French I

Pronunciation and grammatical structures of French, with emphasis upon balanced development of all four skills – listening, speaking, reading, and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

FRE 1121 - French II

Pronunciation and grammatical structures of French, with emphasis upon balanced development of all four skills – listening, speaking, reading and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

FRE 1120 or an equivalent course with a grade of “C” or better.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

General Education Diploma (GED) XGE ___ - GED Comprehensive Preparation

This course provides skill and knowledge building for each of the GED subject areas of math, science, reading, social studies, and English.

Note:

* Course number varies with number of instructional contact hours.

Geography GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEO 1200C - Physical Geography

This course investigates the relationship between the natural environment and humankind, including weather, climate, soils,

biogeography and land forms. The study of the physical Earth is treated so that the student gains an appreciation of man's place in the environment.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

GIS 1040C - Introduction to Geographic Information Systems

This course will provide students with an introduction to Geographic Information Systems (GIS). Lectures will include: what is GIS, GIS applications, fundamentals such as map projections, vector versus raster data models, creating and maintaining geographic databases, spatial analysis and modeling, cartography and map production. Lab sessions will include the hands on use of the ArcGIS software. Students will receive a 180-day version of the software with their textbook that they can use at home to complete assignments.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

moderate familiarity with the Windows operating system, preferably XP.

Geology GLY 2010C - Principles of Geology I

Survey of the composition and dynamic processes of the solid Earth. Topics include planetary geology, mineralogy and petrology, volcanism, surface environments and processes (ocean floor, coastlines, rivers, karst, glaciers, deserts), seismology, surface deformation, Earth's interior, plate tectonics, and mountain formation. Laboratory exercises in mineral and rock identification, interpretation of geological landforms using topographic maps, earthquakes, and basic field methods. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

GLY 2100C - Principles of Geology II

Survey of the physical and biological history of the Earth. Course is divided into two parts. First is a review of common minerals, rocks, and fossils; the use of stratified sedimentary rocks to reconstruct past environments and climates; and the theory of plate tectonics. Second is an overview of the origin and early evolution of the Earth, tectonic formation of continents and oceans, and life through time (first appearance of life, early life in the ocean, Age of Dinosaurs, the Great Ice Age, and the appearance of the first humans). Field and laboratory work in mineral, rock, and fossil identification, description of stratigraphic sections in the field, and geologic map construction and interpretation. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

GLY 2601C - Introduction to Paleontology

This course is a survey of prehistoric life. Topics include fossilization, systematics, evolution, ecology, extinction, and the geological history of life. Laboratory work covers the anatomy, classification, and ecology of major phyla of both extinct and extant organisms, including monerans, protists, plant, macroinvertebrates, and vertebrate animals. The course involves local and regional fossil collecting trips. This course may be used as a General Education science course for any A.S program, and may be used as a category III General Education science course for the A.A. degree.

Credit Hour(s): 4 Credit Hours When Offered: (Fall or Spring)

Graphic Design GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

GRA 1152C - Illustration II

An advanced graphic design course building upon the skills covered in Illustration I; the course includes increased challenges relating to conceptual skills and multi-software integration relating to typical print-based design problems. Access to an appropriate high quality digital camera is required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C .

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2140C - Multimedia I

An advanced course covering the development of multimedia projects incorporating a variety of digital media elements. Students will learn an industry standard digital video editing application and the aesthetic and technical considerations involved in content acquisition. Access to a miniDV camcorder suggested.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ART 2602C , GRA 1151C and PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2141C - Multimedia II

An advanced course covering principles of design and information architecture surrounding interactive multimedia presentations. Students will learn an industry standard interactive DVD media authoring software application. Students will produce a finished interactive DVD.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
GRA 2140C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2142C - Web Design I

An introductory course covering the development of websites using an industry standard web development software application. Students will study the aesthetics and technical considerations involved with information architecture and basic interface design. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

GRA 2143C - Web Design II

An advanced course where students will study an industry standard website development software application. Students will learn advanced techniques and aesthetics involved in information architecture and advanced interface design. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
GRA 2142C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2173C - Projects in Graphic Design

An advanced course utilizing the student's full complement of skills and abilities. The student will work under the advisement of a faculty member to produce a large multifaceted project of their own design.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ART 2602C , GRA 1151C , GRA 2190C and PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

GRA 2191C - Graphic Design II

An advanced Graphic Design course covering the aesthetics and challenges associated with producing complex multi-page printed communications. Access to an appropriate high quality digital camera required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
GRA 1151C , GRA 2190C , PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2900 - Independent Study – Graphic Art

This course covers the practical treatment of Graphics/Printing Technology. Emphasis is on individual work projects.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C or PGY 1801C

GRA 2905 - Independent Study – Graphic Design

The student will initiate independent computer related work, utilizing various software and hardware. The course may be taken four times for credit.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C or PGY 1801C

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2941A - Internship, Graphic Design

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C , GRA 2190C , PGY 1801C and permission of the instructor.

GRA 2950C - Advanced Graphic Projects

An advanced Graphic Design course addressing common Graphic Design problems. Students will explore advanced software application functionality and creative, aesthetic, and portfolio development. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , ART 2603C , GRA 1151C , GRA 2190C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

Health Education HIM 1012 - Health Care and Legal Compliance

In-depth study of federal, state, local laws governing preparation, and use of the healthcare record in the healthcare delivery system.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2253 - CPT Coding - Part 1

Instruction and practice in basic CPT coding conventions, principles of classifying physician services using current procedural terminology (CPT-4), APC, and auditing procedures. Ethical standards of practice will be analyzed.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

HSC 1531 , BSC 1080 , HIM 1432 , knowledge of basic computer & keyboarding skills.

Prereq/Corequisites:

HIM 2724

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM1253)

HIM 2291 - CPT Coding Part 2

This is an advanced course in ICD, CPT and HCPCS coding systems. Students will learn guidelines and applications to more complex case studies and health records according to current ethical standards of practice, inpatient and outpatient prospective payment systems, encoding software and RBRVs.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

HSC 1531 , HIM 2724 , BSC 1080 , HIM 1432 , HIM 2253 , knowledge of basic computer & keyboarding skills.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

(Previously listed as HIM2254)

HIM 2931C - Special Topics in Health Information Technology

This course is a review of skills and work processes to support classification and coding to become nationally certified in-field. Effective test-taking strategies for certification exams and employability skills will be discussed.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Summer) Prerequisite(s):

HIM 2291 , HIM 2729 , HSC 1531 , BSC 1080 , HIM 1432 , knowledge of basic computer & keyboarding skills.

Prereq/Corequisites:

HIM 2272

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSA 3110 - Health Care Organization and Management

This course focuses on the structure and management of health care organizations, and the fundamental issues facing the U.S. health care system. Key topics include health status, the organization of health services, manpower, public health, financing, facilities, utilization, quality, regulation, and national health policy.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

HSA 3111 - Introduction to Health Care Management

This course studies the administration, organization and delivery of health care in the United States. Topics to be examined include health care leadership, management, strategy, performance improvement, information technology, insurance, financial and human resources management, as well as ethical and legal concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

HSA 3113 - Contemporary Issues in Health Care

This course is designed to introduce students to a range of issues related to health and health care in the United States. Course content will give students the opportunity to explore differing perspectives as they develop a deeper understanding of the issues and enhance their research and communication skills. The course will enable students to analyze and evaluate evidence regarding controversial issues. Students will develop and practice skills in formulating and writing well-informed, well-articulated arguments and reflections.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSA 4191 - Health Information Systems

This course focuses on the theories, concepts and principles of health information systems and development of critical thinking skills for use in practice/working in health care informatics. Current trends and issues in using, designing, and managing heath care information systems will be examined. Students, applying evidence-based knowledge, will analyze the design and implementation of health care information systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

HSA 4922 - Capstone: Health Care Management

This course integrates the information, skills, and abilities provided throughout the Health Administration Program in a capstone project. Students complete a project that demonstrates excellence by applying the knowledge gained from the core courses and materials studied throughout the program. Successful completion of the course requires demonstration of the achievement of program objectives and learning outcomes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

History AMH 2010 - American History I

American History to 1877; describes the social, political, and economic development of the American people against the geographical background of the New World. Particular emphasis on American intellectual and political thought leading to the emergence of basic American character, ideas and attitudes. This is a Gordon Rule writing course and is part of the college's

Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

AMH 2020 - American History II

American History from 1877, concentrating on industrial growth, the rise of corporate business, big labor, and government organization. Modification of basic American character and ideas as a continual historical process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

AMH 2071 - Survey of Later History of Florida

A survey of Florida history from the Territorial Period to the 21st Century.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EUH 2032 - The Holocaust

A survey of European anti-Semitism, the rise of institutionalized and codified racism in Nazi Germany and the resulting Holocaust. Examines the role of the state and the citizenry in genocide. Also examines the nascent anti-Semitism of the modern world and the rise of Israel as an international power.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1012 - World Civilization I

A study of world history from 4000 BC to 1650 AD as it relates to the development of western civilization. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1022 - World Civilization II

A study of history from 1650 AD to the present as it relates to the development of the modern world. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 2040 - 20th Century

International political and historical affairs in the 20th century through the institutions and organizations of the Western State

System. Attention is on international cooperation, decision making, force, world resources, and world political geography by the selection of a specific problem. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Hospitality Mgmt. HFT 1000 - Introduction to Hospitality Management

This course is an overview of the hospitality industry, and the many different segments of the hospitality and tourism segments are discussed. Scope, size and industry trends are examined. Theories, examples and industry case studies are used to provide students with examples of problem solving tools of management. Basic industry terminology and management concepts are studied. The important role of service is stressed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Humanities HUM 1020 - Humanities – lntroduction

A chronological survey of techniques and forms related to art, dance, film, literature, music, philosophy, religion and theater. Art works and selected readings are utilized as much as possible. The course includes Writing-Across-the-Curriculum and Speaking-Across-the-Curriculum. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 1905A - Independent Study – Arts and Humanities

A defined independent study which is pursued under supervision of a faculty directing teacher and recorded through departmental procedures. Designed to permit a student to pursue nonscheduled academic and laboratory work which may be of a specialized or advanced nature and not available through classes or courses available on a college schedule. Departmental approval is required. Placement test is required. The course includes Writing-Across-The-Curriculum. If used to meet Gordon Rule requirements for general education, a minimum grade of "C" is also required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

approval from department chair, a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

HUM 2250 - Humanities – A Contemporary Perspective

This course is an integrated study of the artistic, cultural, philosophic, religious, social, and technological influences that shape modern western cultures in the modern era. The focus will begin with the 20th century and follow, chronologically, the issues of the modern era. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-

Curriculum requirement.

HUM 2700 - Humanities – Foreign Study

A variable humanities content course designed to allow students first-hand learning experiences outside the United States. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

HUM 2920 - Humanities Colloquium

Humanities Colloquium is a lab designed to introduce students to critical visual and listening skills to become an intelligent arts consumer. Initial lecture sessions are devoted to discussions of the elements of analysis of art works, music pieces, theater performances, and dance presentations. Students will be required to attend selected NWFSC Visual and Performance Arts presentations and to write a short critical review of each. Topics may vary.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

placement test may be required.

HUM 2930 - Humanities – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

IDS 2220 - Issues in Science and Religion

This course will explore and relate scientific and religious conceptions of the natural world. Survey of major scientific discoveries and theories that both challenge and inform religious belief (including Big Bang cosmology, geologic time, evolutionary biology and paleontology, and Earth systems/global change). Survey of the historic role of religion and religious cosmologies in the rise of science, types of religious experience, concepts of God and divine action, the idea of the sacred as the ground for meaning in nature, natural theology and theology of nature, intelligent design, varieties of creationism, and various metascientific proposals (Anthropic Principle, Gaia Hypothesis, Biophylia, Deep Ecology). Emphasis is placed on integrating and harmonizing scientific and religious understandings to develop a more meaningful and informative, contemporary worldview.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Legal Assisting PLA 1003 - Introduction to Paralegal Studies

This course is designed to give students a broad understanding of the nature of the paralegal profession and the elements contained within the profession, as well as its responsibility.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1005 - Legal Terminology

This course is designed to give an explanation of the common legal vocabulary involved in the broad, general principles of substantive and common law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1013 - Introduction to the Legal System

A practical introduction to the US legal system, types and sources of law, the courts, and related topics; a beginning course for students seeking careers in legal secretary technology or legal assisting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1114 - Legal Research and Writing

This course is designed to provide the student with necessary skills and knowledge required in legal research/case analysis and legal writing.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PLA 1003

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1203 - Civil Procedure

This course provides an insight into the system of dispute resolution for private parties and the government provided by the court systems of the various states and the federal government in a non-criminal setting.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1600 - Wills, Trusts, and Probate

This course is designed to provide the student with an introductory knowledge of estate planning, wills, and probate administration.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1800 - Introduction to Family Law

An introduction to practices as they relate to family law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 2273 - Tort Law

This course is designed to provide the student with an introductory knowledge of tort law with objectives centered on personal injury torts.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 2949 - Internship - Paralegal

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

completion of a minimum of 12 credit hours in the appropriate discipline, including PLA 1003 and permission of the instructor.

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

Library Science LIS 1001 - Library Skills

A course creating learning situations in which individual students can become effective independent users of Learning Resources facilities. This course is recommended for all degree-seeking students in their first term.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

LIS 2004 - Introduction to Internet Research

Introduction to Internet Research is a one-credit hour course offered by the Florida Public Community College system. This course is delivered via the World Wide Web and Internet e-mail. The course focuses on methods of accessing information resources available through the Internet. Students will learn to design search strategies, retrieve, evaluate, and cite Internet resources. The World Wide Web, e-mail, discussion groups, chat, FTP, Gopher, and Telnet are some of the topics covered.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

a full service Internet account, including an electronic mail address from an Internet Service Provider (ISP), or access through a corporate or educational institution prior to beginning the course.

Note:

▲Technology-Across-the-Curriculum Course.

Literature AML 2010 - American Literature I

A course in American Literature from the pre-Colonial period to the Civil War. This course may be used for Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

AML 2020 - American Literature II

A course in American Literature from Civil War to present. This course may be used for Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 . (Note: AML 2010 is not a prerequisite for this course)

ENL 2012A - English Literature I

A study of English literature from the Old English period, Beowulf, through the late Eighteenth century, the Age of Enlightenment, focusing on major works and their authors with an emphasis upon the literature as a significant reflection of and contribution to the political, cultural, social, religious, and economic milieu of each age. This course may be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

ENL 2022 - English Literature II

A study of English literature from the Romantics through the modern era, focusing on major works and their authors with an emphasis upon the literature as a significant reflection of and contribution to the political, cultural, social, religious, and economic milieu of each age. This course may be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet Gordon Rule requirements for general education, a minimum grade of "C" is required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 . (Note: ENL 2012A is not a prerequisite for this course)

LIT 2090 - Contemporary Literature

Studies in contemporary literature, focusing on comments on modern man. May be used as Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2100 - World Literature I

Designed to encourage students to know and appreciate the great literature that helps to mold their thinking and everyday living. Includes, without regard to national origin, those masterpieces of world literature, from antiquity through the Renaissance, that reflect cultural and intellectual heritage. May be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet the Gordon Rule requirements for general education, a minimum grade of "C" is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2120 - World Literature II

Designed to encourage students to know and appreciate the great literature that helps to mold their thinking and everyday living. Includes, without regard to national origin, those masterpieces of world literature, from the Renaissance to the present, that reflect cultural and intellectual heritage. May be used as a humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ENC 1101 . (Note: LIT 2100 is not a prerequisite for this course)

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children's and Adolescent Literature

Designed to explore the range and diversity of the children's literary canon, surveying the historical development of children's and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2603 - Literature of War in the 20th Century

Designed to investigate the historical, psychological, and universal issues that face societies in times of war, through analysis of a range of literary genre and texts, including fiction, poetry, drama, letters, and memoirs focusing on wars of the modern era. The approach is global, but concentrates heavily on the war experiences of the United States. This course will be a General Education elective, but will not meet Humanities or English General Education requirements. Course has International/Diversity focus for Teacher Ed program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Machining/CNC ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETD 1102 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ETI 2412C [Inactive] or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 1203C - Introduction to Machining

In this course, the student will learn how to interpret engineered blueprint drawings, lay out scribe lines and marks for sawing, rough saw and cut materials; utilize precise indicating devices for tramming of machines, indicating vises, sine bars, angle plates, etc. in order to set up and operate various machines; square, face, cut, turn down, and bore material to maintain strict machining tolerances; develop a basic knowledge and understanding of industrial materials to calculate proper speeds, feeds, and RPM's and safely operate heavy-duty industrial machinery.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETM 1010C and ETD 1320C or equivalent experience

Note:

This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2213C - Machining I

In this course students will continue to develop basic machining skills and better utilize machine tool accessories to assist in different machining operations to include: set up and utilize machine tool accessories, vertical knee milling operation, manual lathe operations, manual lathe threading and drill press operations.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 1203C and ETD 2218 or equivalent experience

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2214C - Machining II and Introduction to CNC

In this course, utilizing the skill sets learned in Introduction to Machining and Machining I the student will bring the machining process together to fabricate a complete assembly. In addition, this course includes an introduction to CNC.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 2213C

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Management HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process,

and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2300 - Personnel Management

An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager's need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3120 - Leadership and Group Dynamics

An applied leadership course with a focus on case studies, projects and group interaction; includes theoretical background on group dynamics, small group behavior and motivation, power, types of groups, verbal and non-verbal communication skills and team-building. Emphasis will be placed on sociological and psychological dimensions of inter-group relations, including analysis and problem-solving through simulations, cases and similar activities which reflect a general business perspective, as well as leadership and group dynamics across a variety of business units/functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; GEB 3031 and MAN 3052 recommended, but not required.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3213 .

MAN 3574 - Acquisition Management

Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 or MAN 3052 .

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Upper division standing and MAN 3052 .

MAN 3903 - Operations Research

Operations Research is a science of modeling and optimization. It allows to model real-world problems by using mathematics, statistics and computers. It provides us the tools and theories to solve real-world problems by finding the optimal solutions to models subject to constraints of time, labor, resource, materials and business rules. With Operations Research, people make intelligent decisions to develop and manage their processes and businesses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing, STA 2023 , MAC 1140

MAN 4162 - Customer Relations for Managers

This course focuses on relationship building for all customers of an organization. The impact of culture and diversity on business relationships, successful negotiation strategies, and promotion of the organization through media relations are discussed. Emphasis is placed on the manager's role in improving customer relationships by creating a customer-focused, organizational climate.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing

MAN 4401 - Labor Relations

This course explores the impact of employee organizations on labor relations, current problems, conflicts and trends and includes the development of managerial approaches to achieve labor management cooperation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and MAN 3310 .

MAN 4520 - Quality Management

This course examines the strategic role of quality within an organization, as well as strategic issues involved in managing quality. Topics include assessing customer requirements, developing customer focus and measuring quality performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing; GEB 3031 or MAN 3052 preferred.

MAN 4555 - Quality Certification: ISO 9000

A comprehensive study of internationally uniform quality standards (ISO 9000 and the steps to individual and organizational certification; includes management responsibility, quality system documentation, contract review, design control, process control, inspection and testing, corrective actions and other certification topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing.

MAN 4720 - Strategic Planning and Management

This course addresses the integration of organizational functions to achieve competitive advantage and organizational harmony through strategy formulation, implementation and evaluation. Activities include case studies and a strategic planning simulation. Topics include change theory, decision-making, planning models, and strategic planning processes as applied in a variety of business settings, units, and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing and GEB 3031 and MAN 3052 or permission of the instructor.

MAN 4930 - Capstone: Acquisition Management

In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MAN 3574 and upper division standing.

MAN 4931 - Capstone: Project Management

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MAN 3583 and upper division standing.

MAN 4932 - Contract Negotiations Seminar

This seminar will refine the negotiation skills of the student through the use of readings, class discussions, case analyses, and practical exercises. Students will be introduced to goals, objectives, and strategies, as well as using appropriate tactics and methods to achieve them. The course will also help students understand the role of communication, power, and personality in the negotiation process and facilitate them assessing their personal abilities and traits as they relate to negotiation. While the course will focus on negotiation of defense-related contracts, the principles covered will apply to the entire range of interpersonal relationships.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and BUL 4333 .

MAN 4933 - Best-Value Source Selection Seminar

Focus is on the best-value source selection process. Students will walk through the acquisition cycle. Topics will include acquisition strategy, pre-solicitation activity, preparation for evaluation, initial proposal evaluation, discussions or negotiations, final proposal revision and recommendations and decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and MAN 3574 .

MAN 4934 - Logistics Management Seminar

A special topics course conducted in group or individual format; focus is on the terms, concepts and processes associated with logistics and distribution in the contemporary business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and MAN 3583 or MAN 3574 .

MAN 4940 - Capstone: Supervision

This capstone course will build upon and integrate the primary management skills and concepts introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge. This

course will also cover basic entrepreneurial principles, which will be integrated throughout the student-led projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Senior standing and completion of or concurrent enrollment in remaining core and emphasis business courses.

MNA 1016 - ISO 9000 - Industrial Management

ISO 9000 is the international standard for Quality Management Systems that promote efficiency, competitiveness, consistency, and international recognition in virtually all types of organizations. This course prepares individuals to guide an organization through the steps necessary for ISO 9000 registration and subsequent audits and triennial re-registration, or to be effective participants (employees of any rank) in an organization already registered to ISO 9000.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1346 - Supervision II

The course presents a continuing study of the functions of a personnel manager, philosophy of general management, employee socioeconomic climate and other information. Included are orientation, training, labor unions, safety, health and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2141 - Leadership Techniques

This interdisciplinary course addresses leadership in a group setting and focuses on leadership development through discussion, readings, group and individual projects and other applied activities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Marketing MAR 2011 - Introduction to Marketing

An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Upper division standing.

MKA 2021 - Professional Selling

Selling, correct attitudes and personal attributes for dealing with the public on a business or professional basis.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MKA 2041 - Retail Management

This course covers retail store management, location, buying merchandise, control policies, services, pricing, expenses, profits, training and supervision of retail sales forces, and administrative problems. Also includes a variety of current perspectives in retailing management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MKA 2511 - Introduction to Advertising

Advertising as a marketing tool, its planning, creation, and use. A survey of copy writing, layout, and media (newspapers, magazines, radio, television, films, etc.)

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Mathematics MAC 1105 - College Algebra

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

MAC 1105L - College Algebra Lab

A hands-on lab designed to improve students’ success rates in the College Algebra course. Students will work on all topics covered in MAC 1105 . Emphasis will be placed on strengthening algebraic skills through a variety of nontraditional approaches to learning, including small group collaboration and computer-based interactive learning. Meets specific general education requirements. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

MAT 1033A or equivalent with a “C” or better, or appropriate placement scores

Corequisite(s):

MAC 1105 .

MAC 1114 - Trigonometry

This is the second course in a Pre-calculus sequence which includes the following topics: definitions, graphs, and properties of the six trigonometric functions and their inverses; trigonometric identities; solving trigonometric equations; solving right and oblique triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

MAC 1140 - Pre-Calculus Algebra

This is the first course in a two-course Pre-calculus sequence which includes the following: equations and inequalities; linear, quadratic, logarithmic and exponential functions and relations; systems of equations; matrices and determinants, mathematical proof techniques, including mathematical induction; binomial theorem; sequences and series; and applications of algebraic techniques in the real world. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1105 with a grade of “C” or better, or equivalent; or appropriate placement score.

MAC 1147 - Pre-Calculus Algebra/Trigonometry

This course reviews algebra and trigonometry. Topics include the following: polynomial, rational, exponential, logarithmic, and trigonometric functions; inverse functions; trigonometric identities and equations; solutions of triangles; vector algebra; topics from analytical geometry; sequences; series; mathematical induction; and the binomial theorem. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

appropriate placement score and high school trigonometry with a "B" or better; or special permission of the Mathematics Department.

MAC 2233 - Business Calculus

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

MAC 2311 - Calculus I

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L'Hopital's Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle's theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 1140 and MAC 1114 with a grade of "C" or better or equivalent; or appropriate placement score.

MAC 2312 - Calculus II

This is the second course in a three-course sequence. The course covers the following: techniques for finding areas, volumes, arc lengths and surface areas, methods of integration, including integration by parts, trigonometric substitution, and partial fractions, improper integrals, conic sections, graphing and area in polar coordinates, infinite sequences and series, tests for absolute and conditional convergence of series, and power series. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2311 with a grade of "C" or better or equivalent.

MAC 2313 - Calculus III

This is the third course in a three-course sequence. The course includes the following topics: vectors, lines and planes in space, quadric surfaces, vector-valued functions and motion in space, functions of two or more variables, partial derivatives, gradients, directional derivatives, and their applications, multiple integrals in rectangular, cylindrical, and spherical coordinates, and their applications, line integrals, and surface integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAC 2312 with a grade of "C" or better or equivalent.

MAD 2104 - Introduction to Discrete Mathematics

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations and functions, recursion, and graph theory. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

a grade of "C" or better in MAC 1140 or a course in programming.

MAD 3107 - Applied Discrete Mathematics

This course builds on the foundation established in Introduction to Discrete Mathematics with further exploration in logic,

mathematical reasoning, and mathematical proof writing. Topics include logic, set theory, boolean algebra, combinatorics, and graph theory with applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

Completion of MAC 2312 with a grade of “C” or better or concurrent enrollment in MAC 2312 .

MAP 2302 - Differential Equations

This course provides an introduction to ordinary differential equations with an emphasis on first and second order linear equations and applications. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

either completion of MAC 2313 with a "C" or better or concurrent enrollment in MAC 2313 . Equivalent courses from other institutions may be used to meet the prerequisite.

MAS 2103 - Linear Algebra

This is an introductory course in Linear Algebra intended to give students enough insight to enable successful pursuit of more abstract mathematics courses. This course includes the study of matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, eigenvalues, and eigenvectors. Exercises using MATLAB will be required. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

completion of MAC 2312 with a grade or “C” or better, or equivalent.

MAT 0018 - Developmental Mathematics I

This course is designed for students whose entry level placement test scores do not meet requirements for degree credit (not applicable for degree completion). It is designed to reinforce the knowledge of operations and applications of fractions, decimals, percents, and signed numbers. An introduction to algebra will also be covered. Students must pass this class with a "C" or better to move on to MAT 0028 .

Credit Hour(s): 3 College Prep Credits When Offered: (Offered as needed) Prerequisite(s):

A score of 50-95 on the PERT.

Corequisite(s):

SLS 1101 .

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

MAT 0022 - Developmental Mathematics Combined

A course designed to satisfy the requirements of both MAT0018 and MAT0028 in one semester and prepare students for MAT1033A. Topics to be studied include computations with decimals, percents, integers, operations with rational and polynomial expressions, linear equations and inequalities in one variable, factoring, and basic linear graphing. This course will teach the student to understand and communicate concepts of algebra in the language of mathematics, both orally and written. Due to the nature of this course, calculators are not permitted.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PERT score 50-95 or ACT/SAT equivalent.

MAT 0028 - Developmental Mathematics II

This course is designed for students whose entry level placement test scores do not meet requirements for degree credit (not applicable for degree completion). This course emphasizes concepts, techniques, and applications of the following topics: operations with real numbers, linear equations and inequalities in one variable, rational expressions, properties of exponents, polynomials, radical expressions, and graphs of lines.

Credit Hour(s): 4 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Grade of "C" or better in MAT 0018 or score of 96-112 on the PERT or on an elective basis score 113 or higher on the PERT

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

MAT 0056 - Developmental Mathematics Module

This course is designed for students whose entry level placement test scores do not meet requirements for degree credit (not applicable for degree completion). This course emphasizes concepts, techniques, and applications of the following topics: operations with real numbers, linear equations and inequalities in one variable, rational expressions; properties of exponents,

polynomials, radical expressions, and graphs of lines. Student may exit Developmental Writing Module by passing the coursework and by obtaining a passing score on the Departmental Exit Exam.

Credit Hour(s): 2 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Obtaining at least an 80% on the departmental final exam for MAT 0018 or a score of 105-113 on the PERT.

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

MAT 1033A - Intermediate Algebra

This is an intermediate algebra course designed to prepare students for general education mathematics/statistics courses. This course emphasizes concepts, techniques, and applications of the following major topics; factoring, algebraic functions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, two-variable linear equations/inequalities and their graphs, systems of linear equations and inequalities, and an introduction to functions. This course may be used as an elective, but does not meet Gordon Rule requirements for B.A.S., A.A., or A.S. transfer students.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring mathematics achievement, successful completion of any required developmental mathematics coursework with a grade of "C" or better, or exemption from placement testing.

MAT 1033L - Intermediate Algebra Laboratory

A hands-on lab designed to improve students' chance for success in the MAT1033A Intermediate Algebra course. Students will work to strengthen skills required to master the topics covered in Intermediate Algebra. The topics include, but are not limited to, factoring, algebraic functions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, two-variable linear equations/inequalities and their graphs, systems of linear equations and inequalities, and an introduction to functions

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

MAT 0028 or equivalent with a grade of "C" or better or a passing score on the standardized placement test measuring mathematics achievement, successful completion of any required developmental mathematics coursework with a grade of "C" or better, or exemption from placement testing.

Corequisite(s):

MAT 1033A

MAT 2905 - Independent Study – Mathematics

This course is designed to allow a student to complete part of a course taken elsewhere and thereby complete general education requirements or to go deeper into special areas of interest.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):

passing score on placement exam.

MGF 1106 - Mathematics for Liberal Arts I

This course is designed for those students requiring only general education mathematics courses. It includes systematic counting, probability, statistics, history of mathematics, geometry, sets, and logic. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MGF 1107 - Mathematics for Liberal Arts II

This course is designed for those students requiring only general education mathematics courses. Topics include numeration and mathematical systems, number theory, linear and exponential growth, history of mathematics, voting techniques, graph theory, and consumer mathematics. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MHF 4404 - History of Mathematics

This course is for students pursuing an education degree with an emphasis in middle school and secondary mathematics. This course covers the evolution of mathematics from early number systems through modern mathematics. If used to meet NWFSC Teacher Education program requirements, this course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Completion of MAC 2311 with a grade of "C" or better or concurrent enrollment in MAC 2311 .

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MTG 2206 - College Geometry

This course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve the following: line segments, angles, triangles, polygons, parallel and perpendicular lines, slopes of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems. Lines and other geometric figures are graphed in the rectangular coordinate system. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

completion of MAC 1105 or equivalent with a “C” or better.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

STA 2122 - Statistical Applications

This course is designed for students pursuing psychology, education, and some specialized degrees. The course is an introduction to understanding and applying statistical concepts. Topics include: descriptive statistics, probability distributions, one and two sample hypothesis testing, confidence interval estimation, correlation, regression, and analysis of variance. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

Medical Office Skills HIM 1000 - Health Information and Delivery Systems

Orientation to medical records history and professional associations. Confidentiality, filing, retrieving, indexing, numbering, storage and content of the medical record is also discussed. The course includes job search skills and professional job performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 1432 - Pathopharmacology

Introduction to the nature, cause, and treatment of disease entities and the body's defense mechanisms. Commonly used drugs will also be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 1442 - Pharmacology for HIM Professionals

Pharmacology for HIM Professionals provides an overview of the pronunciation, spelling, actions and side effects of the most commonly prescribed medications. The course will examine pharmacological terms, abbreviations, and symbols used by healthcare providers to write prescriptions.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

BSC 1080 , HSC 1531 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2272 - Healthcare Reimbursement

Emphasis on billing regulations for the State of Florida. Course content includes LMRPS, Workers' Compensation laws, Florida Medicare, and claims for automobile accident injuries.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

Knowledge of basic computer & keyboarding skills

Prereq/Corequisites:

HIM 2729

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM1275)

HIM 2724 - ICD Coding Part 1

This course provides a foundation using ICD-10-CM/PCS coding conventions, rules, methodology and sequencing, data sets, documentation requirements, and coding resources.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

HSC 1531 , BSC 1080 , HIM 1432

Prereq/Corequisites:

HIM 1000

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIMXXX1)

HIM 2729 - ICD Coding Part 2

This course focuses on assigning appropriate ICD, DRG, and Level II (HCPCS) codes to a wide range of original source medical documents. This course increases the quality of code selection by applying the decision process in problem solving using well-defined medical record review methods and guidelines. Ethical practices will be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

BSC 1080 , HIM 2724 , HIM 1432 , HSC 1531 , knowledge of basic computer & keyboarding skills.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM2721)

HIM 2815C - Professional Practice Experience

Working in a simulated, online environment, students will endeavor to code and bill using nationally recognized, American Health Information an Management Association (AHIMA) simulation software.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

HIM 2729 , HSC 1531 , BSC 1080 , HIM 1432 , knowledge of basic computer & keyboarding skills

Corequisite(s):

HIM 2291

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HSA 1100 - Introduction to Health Care

Introduction to the healthcare delivery system and health related occupations. Also safety, security, and infection control procedures will be discussed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer)

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

OST 1107 - Word Processing I

Integration of basic keyboarding and word processing – learning the keyboard, creating, editing, saving, and other word processing functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:

▲Technology-Across-the-Curriculum Course.

OST 1355 - Records Management

Methods and systems of filing used in business offices, filing equipment, and time-and-motion skills. Filing practice sets are used.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2117 - Word Processing II

Continuation of Typing and Word Processing I – develop keyboarding and document processing using a microcomputer.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

OST 1107 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

OST 2401 - General Office Management

Study of practices and procedures in the modern office. Emphasis on exercising judgment, handling incoming calls and callers, processing mail, word processing systems, editing and composing techniques, travel arrangements, banking procedures, employment applications and resumes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

OST 2117 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Medical Reporting HIM 1273C - Medical Billing

Introduction to computerized medical billing and reimbursement through various payors. Correct completion of HCFA 1500 forms will be emphasized.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

HIM 1282 , knowledge of basic computer and keyboarding skills.

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 1282 - Basic Coding for Medical Records

Development of nomenclature and classification systems and an introduction to ICD-10-CM and CPT coding.

Credit Hour(s): 4 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
HSC 1531 , BSC 1080 , HIM 1432

Corequisite(s):
HIM 1000

Note:
*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2283C - Advanced Coding for Medical Records
Advanced instruction in coding/ICD-10-CM diagnoses, and procedures in ICD-10-CM and CPT both manually and automated. Provides sequencing guidelines and rules and regulations in both the hospital and physician office setting. Introduces the student to Ambulatory Payment Classifications (APCs) and Diagnostic Related Groups (DRGs).

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):
BSC 1080 , HIM 1000 , HIM 1282 , and HIM 1432 .

Note:
*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Meteorology MET 1010 - Introduction to Meteorology
Structure of the atmosphere, weather processes, systems and phenomena; climate and climatic change, and economic impact of weather.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

Military Science (ROTC) MSL 1001 - Foundations of Officership
This course examines the unique duties and responsibilities of officers, organization and role of the Army, reviews skills pertaining to fitness and communication, and analyzes Army values and expected ethical behavior. Requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 1 Credit Hour When Offered: (Fall)

MSL 1002 - Basic Leadership
This course presents fundamental leadership concepts and doctrine, the practice of basic skills that underlie effective problem solving, and examines the officer experience. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 1 Credit Hour When Offered: (Spring)

MSL 2101 - Individual Leadership Studies
This course develops knowledge of self-confidence and individual leadership skills. It develops problem solving and critical thinking skills, as well as how to apply communication, feedback, and conflict resolution skills. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 2 Credit Hours When Offered: (Fall)

MSL 2102 - Leadership and Teamwork
This course focuses on self-development guided by knowledge of self and group processes, challenges current beliefs, knowledge, and skills. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 2 Credit Hours When Offered: (Spring)

MSL 2905 - Independent Study – Military Science and Leadership
Directed study and/or individual project designed to meet the needs and interests of students in ROTC. This course develops knowledge of self, self-confidence, and individual leadership skills. It develops problem and critical thinking skills, as well as how to apply communication, feedback, and conflict resolution skills. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

ROTC sophomore standing and departmental approval.

Note:

This course may be taken up to four times for credit.

Music MUH 2930 - Music Humanities – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MUL 1010 - Music Appreciation

Designed to develop a more intelligent understanding of and appreciation of music. By methodically surveying the main periods of Western Art Music from the Medieval Period through present day, this class will bring about an awareness of music as a vital source in human life, and will aid in developing positive attitudes toward culture and the fine arts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet AA Gordon Rule requirements for general education, a minimum grade of "C" is required. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the- Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

MUM 1620 - Audio and Acoustic Fundamentals

Audio and Acoustic Fundamentals explores the basics of audio systems and equipment and the acoustical environment in which they are used. Emphasis is placed on equipment terminology, function and acoustical listening. The two basic fundamentals are summed together to begin laying the basic foundation required to operate audio and recording equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

MUM 2300 - Introduction to the Music Industry

This course is an introduction to the history, principles, and practices of the music industry. Topics will include music publishing, copyright, distribution, industry organization, producing, and general business functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MUM 2600 - Recording Techniques I

This course is designed as an introduction to basic audio engineering and studio practices. Listening exercises, phychoacoustics, microphone characteristics, and studio etiquette will be studied. In addition the student will study techniques and practices and procedures of multi-track recording, acoustical balancing, editing, and over dubbing in a variety of situations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MUM 1620 .

MUM 2600L - Recording Lab

This course is designed to provide students with "hands on" experience for the instructional material in MUM 1620 , MUM 2600 , MUM 2601 , and MUM 2604 . This lab course is required for each of the above listed courses.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

Student proficiency in Windows operating system currently in use in the Music Theory Lab.

Note:

This course may be taken up to four times for credit.

MUM 2601 - Recording Techniques II

This course explores advanced multi-track recording skills and audio production techniques, edits, use of outboard equipment and live multi-track recording.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MUM 1620 , MUM 2600 .

MUM 2604 - Multi-Track Mixdown (Post Production)

This course explores the application of signal processing equipment as it relates to multi-track master mixdowns. In addition, software and hardware application of mixdown is applied to post-production practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

MUM 1620 , MUM 2600 , MUM 2601 .

MUN 1000 - Summer Ensemble Workshop

An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop will be expected to participate in several scheduled performances.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

experience in high school or a desire to learn.

MUN 1001 - Summer Ensemble Workshop II

An ensemble workshop and performance to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop II will be expected to participate in several scheduled performances.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

MUN 1000 .

MUN 1002 - Summer Ensemble Workshop III

An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical physical styles will be studied. Students participating in Summer Ensemble Workshop will be expected to participate in several scheduled performances.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

MUN 1000 , MUN 1001 .

MUN 1310 - Women's Ensemble

A music organization open through auditions to any student having experience in reading music. A variety of musical styles will be studied and performed. Students electing NWFSC Chorus will be expected to participate in scheduled performances.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

Experience in high school choruses or choirs.

Note:

This course may be taken up to four times for credit.

MUN 1340A - NWFSC Show Choir I

A study of the fundamental techniques and principles of integrating dance, voice, music and acting into a performance show choir. Training in voice, jazz movement, character interpretation and personality presentation is covered. Membership is open to all part-time or full-time students on a credit or audit basis. All music majors and performance majors must participate. The show choir appears in public performances at frequent intervals throughout the year.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Audition, consent of department, music or performance minor.

Note:

This course may be taken up to four times for credit.

MUN 1360 - Madrigal Singers I

Auditioned a cappella ensemble teaching choral styles that range from the Renaissance madrigal to present day, such as vocal jazz, spirituals and contemporary choral works. This course if for the "first year" student.

Credit Hour(s): 1 Credit Hour When Offered: (Offered Fall, Spring) Prerequisite(s):

Audition based on vocal quality, musicianship and sight reading ability.

Note:

This course may be taken up to four times for credit.

MUN 1390 - Symphony Chorale I

A music organization open through auditions to any student. The Symphonic Chorus will study and perform literature for the large sized chorus.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
audition or permission of instructor.

Note:
This course may be taken up to four times for credit.

MUN 1421 - Flute Ensemble
The study and performance of flute ensemble and flute choir music in a musical group.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
audition or instructor recommendation only.

Note:
This course may be taken up to four times for credit.

MUN 1710A - Rock and Jazz Ensembles I
Music performing organization open to any student who wants to develop his or her performance repertoire. Laboratory studies include techniques of performing music, literature, practices, styles and media applicable to designated organized ensemble.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
Some experience in high school bands, etc.

Note:
This course may be taken up to four times for credit.

MUN 1711 - Jazz Workshop
The study and performance of jazz music in the context of the small ensemble. This will be accomplished through the performance of both stock arrangements and student arrangements. Instrumentation: 5 wind, 4 rhythm, voice.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
Strong music performance background with basic knowledge of the jazz idiom.

Note:
This course may be taken up to four times for credit.

MUN 1720A - Rock and Jazz Ensembles II
Music performing organization open to any student who wants to develop his/her performance repertoire. Laboratory studies include techniques of performing music, literature, practices, styles and media applicable to designated organized ensemble.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
experience in high school bands.

Note:
This course may be taken up to four times for credit.

MUN 2211 - NWFSC Symphony Orchestra II
A music organization providing an outlet and learning experience to study and perform standard orchestra literature, to improve individual instrumental skills, and to sharpen ensemble techniques. The Symphony occasionally performs with guest artists, choral groups and theater ensembles.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:
This course may be taken up to four times for credit.

MUN 2361 - Madrigal Singers II
Auditioned a cappella ensemble teaching choral styles that range from the Renaissance madrigal to present day, such as vocal jazz, spirituals and contemporary choral works. This course is for the "second year" student.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
MUN 1360 .

Note:
This course may be taken up to four times for credit.

MUN 2371 - NWFSC Show Choir II
A study of the fundamental techniques and principles of integrating dance, voice, music and acting into a performance show choir. Training in voice, jazz movement, character interpretation and personality presentation is covered. Membership is open to all part-time or full-time students on a credit or audit basis. All music majors and performance majors must participate. The show choir appears in public performances at frequent intervals throughout the year.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
MUN 1340A .

Note:
This course may be taken up to four times for credit.

MUN 2392 - Symphony Chorale II
A music organization open through auditions to any student. The Symphony Chorus will study and perform literature for the large sized chorus.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
MUN 1390 .

Note:
This course may be taken up to four times for credit.

MUS 1905A - Independent Study – Music
A defined independent study which is pursued under supervision of a faculty directing teacher and recorded through departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized or advanced nature and not available through classes or courses available on a college schedule. Departmental approval required. Placement test is required. The course includes Writing-Across-The-Curriculum. If used to meet Gordon Rule requirements for general education, a minimum grade of “C” is also required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
Approval from department chair, a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

MUS 2930 - Music – Special Topics
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
*This course may be taken up to four times for credit.

MUT 1001 - Fundamentals of Music
A pre-theory course for the music major, non-music major, or for the elementary education major.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

MUT 1121 - Music Theory I - Ear Training and Sight Singing
A study of the fundamentals of basic musicianship, music notation, understanding of simple rhythms, key situations, intervals, ear training, dictation, sight singing, major and minor scales, intervals, triads, chords, polyphonic composition and elementary keyboard work.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 1001 or instructor permission.

Note:
▲Technology-Across-the-Curriculum Course.

MUT 1122 - Music Theory II - Ear Training and Sight Singing
A continuation of MUT 1121 . Basic musicianship, writing and reading of music, ear training, dictation, sight singing will be studied, as well as major and minor scales, intervals, triads, seventh chords, inversions, cadences, periods and progressions in all keys. Two, three and four part chords and polyphonic composition.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 1121 .

Note:
▲Technology-Across-the-Curriculum Course.

MUT 1641 - Jazz Improvisation I
A course designed to introduce the student to the concepts of Jazz Improvisation. Through active participation the student will develop the basic skills necessary to become a competent jazz soloist.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MUT 1121 .

Note:

This course may be taken up to two times for credit.

MUT 2126 - Music Theory III – Ear Training and Sight Singing

A continuation of MUT 1121 and MUT 1122 . The harmonization and modulation of melodies through the use of nondominant harmony and the study of sequence writing. Incorporates keyboard harmony plus sight reading of chromatic melodies, large intervals, and advanced rhythms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 1122 .

MUT 2127 - Music Theory IV – Ear Training and Sight Singing

The continued study of harmonization of melodies, sequence writing, sight reading, intervals, advanced rhythms and structures.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 2126 .

MUT 2351 - Introduction to Jazz Theory/Arranging

A lecture-demonstration-workshop, approach to jazz/ pop arranging open to any student who wants to begin or understand composing/arranging. Studies include jazz/pop harmonies, arranging fundamentals and techniques, and the use of jazz/pop instrumentation. Workshop practices include assigned arrangements with the arrangements played by the jazz ensemble, and other audio demonstrations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MUT 1122 .

MUT 2642 - Jazz Improvisation II

A continuation of MUT 1641 Jazz Improvisation I. This course is designed to further develop the skills needed to become a competent soloist in the jazz idiom.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

MUT 1641 .

Note:

This course may be taken up to two times for credit.

MVB 1201 - Applied Music Secondary – Brass I

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

This course may be taken up to four times for credit.

MVB 2202 - Applied Music Secondary – Brass II

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

MVB 1201.

Note:

This course may be taken up to four times for credit.

MVK 1211 - Applied Music – Piano I

Private instruction in piano, as secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

MVK 2221 - Applied Music – Piano II

Private instruction in piano, as a secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

MVK 1211.

Note:
This course may be taken up to four times for credit.

MVP 1201 - Applied Music Secondary – Percussion I
Private instruction in percussion instruments to develop the student's performance ability in an applied area. One half-hour private lesson per week. Minimum of one hour daily practice is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
This course may be taken up to four times for credit.

MVP 2202 - Applied Music Secondary – Percussion II
Private instruction in percussion instruments to develop the student's performance ability in an applied area. One half-hour private lesson per week. Minimum of one hour daily practice.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVP 1201 .

Note:
This course may be taken up to four times for credit.

MVS 1016 - Applied Strings – Guitar I
Private instruction on guitar. Designed to equip the student for continuing study leading progressively to greater proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

MVS 1017 - Applied Strings – Bass Guitar I
Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

MVS 1111 - Class Guitar
The study of basic techniques for the beginning and continuing student.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Note:
This course may be taken up to four times for credit.

MVS 1201 - Applied Music Secondary – Strings I
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
This course may be taken up to four times for credit.

MVS 2026 - Applied Strings – Guitar II
Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
MVS 1016 .

Note:
This course may be taken up to four times for credit.

MVS 2027 - Applied Strings – Bass Guitar II
Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVS 1017 .

Note:
This course may be taken up to four times for credit.

MVS 2202 - Applied Music Secondary – Strings II
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVS 1201 .

Note:
This course may be taken up to four times for credit.

MVV 1211 - Applied Music – Voice I

Private instruction in voice, as a secondary instrument, consisting of one half-hour session per week, with a minimum of one hour daily practice.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

MVV 2221 - Applied Music – Voice II

Private instruction in voice, as a secondary instrument, consisting of one half-hour lesson per week, with a minimum of one hour daily practice.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVV 1211 .

Note:
This course may be taken up to four times for credit.

MVW 1201 - Applied Music Secondary – Woodwinds I

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
This course may be taken up to four times for credit.

MVW 2202 - Applied Music Secondary – Woodwinds II

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVW 1201 .

Note:
This course may be taken up to four times for credit.

Nursing NSP 1721L - Strategies for Nursing Success

The purpose of this course is to provide nursing students with strategies to become more competent learners and test-takers. Topics will include critical thinking and problem-solving skills, nursing process, application of anatomy and physiology, test-taking strategies and techniques, study techniques, time management and support resources. Through content lecture review labs, test-taking skills practice and web-based instructional tools, students will gain additional assistance in preparation for the transition into Associate Degree Nursing courses.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
admission to the Nursing Program, permission of the program director.

NSP 2049L - Nursing Practice Readiness

This elective laboratory course assists the nursing student to prepare for the RN licensure examination (NCLEX-RN). Web-based instructional methodologies allow the student to complete the course within a self-paced time frame. Students practice test taking skills, self-evaluation and other strategies to gain confidence in sitting for the NCLEX-RN.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
NUR 2241C or permission from Nursing Program Director.

Note:
Special Nursing Program policies may apply to this course.

NSP 3640 - Nursing Care of Military and Veteran Populations

This course is designed to identify the unique healthcare needs of military and veteran populations in the United States in order to prepare students and practicing nurses to develop competence in designing nursing interventions within civilian and government agencies in which military members and veterans seek healthcare. In accordance with the ANA’s pledge (2012) to raise awareness of the unique conditions and needs of military veterans and their families, this course supports the Joining Forces initiative to further nursing training to include specialized topics such as traumatic brain injury, posttraumatic stress disorder, trauma rehabilitation, and understanding the military and veteran’s healthcare delivery system.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

NSP 4275 - Introduction to Critical Care Nursing

This course examines the needs of the critically ill client. As part of the human experience, the integrity of the individual and family may be disrupted by a critical illness. During such time, the critical care nurse assists the individual and family to restore life processes to a state of dynamic equilibrium. This course emphasizes the involvement through use of scientific rationale and application of the nursing process in providing care to the individual client and family. Critical care concepts and skills for promoting client and family well-being are stressed.

Credit Hour(s): 3 Credit Hours When Offered: (Summer)

NSP 4625C - Transcultural Nursing Immersion Course

This course unfolds in two phases: a comprehensive Orientation and Education Phase (I) and a Population Service Phase (II). The two stages are designed to be synergistic in nature. Phase I helps students to develop a deeper appreciation for an underserved region of the world. Phase I will set the stage for the immersion and learning that will take place during Phase II when students will provide basic healthcare and health education to an instructor chosen underserved population in the world. Air and ground travel are required. Current/valid Florida Registered Nursing License, good health, and a clear Background Check/Drug Screen are required. An International Passport may be required. Expenses associated with the course are the responsibility of the student.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Student must be a Registered Nurse and have a clear background check/drug screen.

NSP 4869 - The Professional Nurse Manager and Leader

This course outlines the roles and functions of nurses in executive practice using the competencies identified by the American Organization of Nurse Executives (AONE). Successful nurse leaders and managers exercise complex leadership responsibilities that directly affect the quality of patient and family care in today's multifaceted healthcare management systems. This course will address competencies in communication, knowledge of the healthcare environment, business skills and principles, and professionalism. The course content also provides a review of the material covered in the Certified Nurse Manager and Leader examination conducted by the American Organization of Nurse Executives Credentialing Center that is available to BSN prepared Registered Nurses.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

Student must be a Registered Nurse to take this course.

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):

NUR 1021L , BSC 1086C , HUN 2201

Note:

Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Corequisite(s):

NUR 1021C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

Admission to the AS Nursing Program

Note:

Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

admission to the Nursing Program.

Note:

Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):

NUR 1750L , DEP 2004

Note:

Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1021L or LPN licensure

Corequisite(s):

NUR 1231C .

Note:

Special Nursing Program policies may apply to this course.

NUR 1940L - Nursing Clinical Externship

This elective course is designed to offer students the opportunity to gain additional clinical skills practice during the summer semester. Working with a preceptor and the nursing faculty in area hospitals, clinics, or community settings , the student will be able to perform all skills learned in successfully completed nursing courses.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

admission to the AS Nursing Program; NUR 1750L

Note:

Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1231C or approval from the program director.

Corequisite(s):

NUR 2233L , MCB 2010C

Note:

Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 1750L

Corequisite(s):

NUR 2233C .

Note:

Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):

NUR 2241L , NUR 2811L , SYG 2000

Note:

Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on

management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2811L

Note:

Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2241L

Note:

Special Nursing Program policies may apply to this course.

NUR 2931 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 1 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2932 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2933 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2934 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
admission to the AS Nursing program; permission of Nursing program Director.

NUR 2935 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
admission to the AS Nursing program; permission of Nursing program Director.

NUR 3067C - Health Assessment

This course is designed to develop the student's knowledge for obtaining and recording a systematic, comprehensive health history, psychosocial assessment, and physical examination of the adult. The course involves the synthesis of nursing, biologic, psychologic, and sociocultural knowledge and theories as they apply to the findings obtained in the comprehensive health assessment of clients of various ages. During the fieldwork experience, emphasis will be placed on collection of a database through physical assessment, history taking and interviewing.

Credit Hour(s): 3 Credit Hours When Offered: (Fall and Summer) Prerequisite(s):
Admission to the BSN program and meets all enrollment conditions.

NUR 3071 - Writing for Success in Nursing

This course Is designed to develop the student’s knowledge for writing at the upper division nursing level. The course includes information regarding use of APA format and scholarly writing resources.

Credit Hour(s): 1 Credit Hour When Offered: (Fall and Spring) Prerequisite(s):
Student must be a Registered Nurse to take this course.

NUR 3080 - Dimensions of Baccalaureate Nursing Practice

This course will provide Registered Nurses, who are returning to school to earn a Baccalaureate degree, an opportunity to advance professional practice concepts. As designed, the course engages the student intellectually in an ongoing professional dialogue and journey with peers, colleagues, and instructors that serves to broaden the student's professional development and builds on preexisting knowledge and experiences. The course curriculum is written for adult learners with the characteristics of self-direction, prior experience, applicability to practice, and motivation to meet the challenge to expand their knowledge base and to utilize advanced critical thinking skills.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
Admission to the BSN program and meets all enrollment conditions.l

NUR 3678 - Nursing Care of Vulnerable Populations

Caring for the vulnerable members of society is a function nurses perform without regard for their own ambitions, personal safety, and financial security. This course is designed to pull together material from different cultures and at risk groups of individuals considered vulnerable populations. Key concepts will be discussed that will provide a basic structure for caring for the vulnerable, the relevance of nursing theories to vulnerable populations, nursing research showing the kinds of phenomena nurses study, and many ideas about learning to work with and advocate for vulnerable individuals.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

NUR 3767 - Nursing Care of Complex Clients

This course assists the RN to BSN student in the assimilation of pathophysiology, assessment, and pharmacological nursing concepts with variety complex client issues. This course provides expanded concepts related to nursing care for individuals experiencing complex alterations in health problems as they progress through a variety of healthcare delivery systems and environments.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
NUR 3067C , NUR 3080 .

NUR 3826 - Nursing Ethics

This course provides an in-depth exploration of ethical principles and moral reasoning as the foundation of nursing practice. The ANA Code of Ethics will be used as a framework for examining current issues in healthcare delivery across the age span from reproductive issues to end-of-life care.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Must be an RN or ASN student.

NUR 3837 - Health Care Issues

This course provides a forum for the exploration and evaluation of concerns germane to contemporary nursing. The focus of this course is on the nursing profession and current major issues and problems that concern it. Social forces influencing changes in the nursing profession are analyzed in terms of historical antecedents and their current manifestations. Recently passed, and pending legislature at both the national and state levels is emphasized.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):

Current RN Licensure.

NUR 3905C - Independent Study - Clinical: RN to BSN

A defined independent study which is pursued under direct supervision of a faculty member and recorded through departmental procedures. Designed to provide an in depth exploration, development, and sharpening of clinical competencies in the Bachelor's level nursing clinical areas. Activities include targeted readings and research, as well as a final project or portfolio. Departmental approval is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

Permission of the Instructor or Department Chair is required.

NUR 3955 - Portfolio I

This course will provide RN to BSN students an opportunity to develop an electronic professional portfolio to express one's professional nursing expertise and proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):

Admission to the BSN program and meets all enrollment conditions.

NUR 4125 - Clinical Pathophysiology

This course examines the underlying pathogenesis, evolution, clinical manifestations, and complications of common disease processes across the life span. Normal and abnormal cellular alterations as well as specific body system alterations are covered in depth. Evidenced-based therapeutic clinical treatment modalities and pharmacological interventions are examined in an effort to provide the participants with a comprehensive clinical overview of disease alterations and clinical treatment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

Must be an RN.

NUR 4165 - Evidence-Based Practice: Incorporating Nursing Research

This course is designed to provide the RN to BSN student with an introduction to the research process and evidence based practice. The purpose of the course is to stimulate interest in nursing research; to enable students to understand and judge the usefulness of scientific findings; and to develop an understanding of how clinical proficiency is combined with experimental proof to produce nursing practices based upon evidence. An on-line teaching method is used with optional workshops available to students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

STA 2023 .

NUR 4615C - Family and Community Health

The Family and Community Health Nursing course is designed to facilitate the conceptualizing of family, population groups, and community as units of care from diverse cultures, ethnic, and social backgrounds. The student is provided a fieldwork opportunity to assess the health needs of selected families and groups in the community setting with selected health promotion, risk reduction, and disease prevention. The nursing process is used to examine multiple influences impacting life-course experiences of families and communities to enhance functioning.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 3067C , NUR 3080 , admission to the BSN program and completion of all General Education requirements.

NUR 4827C - Nursing Leadership and Management

This course provides students with an evidence-based study of leadership, collaboration, and coordination in healthcare settings. Students develop an evidence based paper to deal with key leadership and management issues related to professional goals. Nursing leadership and management fieldwork focuses on the roles and functions of the professional nurse in these roles. Issues associated with healthcare delivery are explored. Fieldwork provides an opportunity to plan, implement and evaluate a change in the practice of nursing.

Credit Hour(s): 5 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

NUR 3080 ,NUR 4165 , NUR 3067C , NUR 4615C .

NUR 4956 - Portfolio II

This course will provide students an opportunity to complete and evaluate their electronic professional portfolio to express their professional nursing expertise and proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring, Summer) Prerequisite(s):

NUR 3955 , NUR 3080 ; Pre or Corequisite: NUR 4827C .

SPN 3036 - Spanish for Health Care Providers

Spanish for Health Care Providers is designed for individuals majoring in nursing or working in health-related areas. The course focuses on vocabulary needed for the healthcare workplace, with grammar taught as a task-based practical skill. Students will learn phrases used to complete health assessments which include conducting interviews, filling out forms, writing reports, and reading and understanding medical articles and brochures. Prevalent disease processes will be discussed as well as cultural practices that affect health care, specifically the health care of Spanish-speaking patients. This course does not fulfill any part of the Florida state language requirements.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Nutrition HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

▲Technology-Across-the-Curriculum Course.

Oceanography OCE 1001C - Oceanography

A survey of the physics, chemistry, geology and biology of the oceans. Interrelationships between the atmosphere and oceans, methods of measurement and research, processes of coastal change and marine conservation. May be used to satisfy A.A. requirements in physical science for career goals other than the sciences, engineering, and pre-professional healthcare.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

OCE 1013C - Aquatic Environmental Science

This course will investigate living and non-living components of aquatic ecosystems. Students will learn how aquatic ecosystems function naturally as well as how human activity can alter these ecosystems. The course is built around field trip(s) and lab work during which students will obtain water quality data from a local aquatic environment. Through field trip(s) and lab work, students will gain appreciation for the local relevance of course material. For both majors and non-majors, a key outcome of such experiences will be gaining experience in using inquiry and reasoning through the scientific method and becoming comfortable with data, technology, and instrumentation. Problem-solving, interpretation of data, and class discussions will be key.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Paramedics EMS 1119C - Emergency Medical Technician

Emergency Medical Technician is designed to prepare the student with the necessary fundamental knowledge to be successful in meeting Emergency Medical Technician certification and licensing requirements. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic. There is emphasis on assessment based learning and complies with National DOT EMT Basic curriculum.

Credit Hour(s): 6 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1401L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1335 - Emergency Vehicle Operators Course

Students receive basic education and information on the safe and effective operation of emergency vehicles.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Program Director.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1401L - EMT Lab

An integrated experience that is designed to allow the student to apply practical experience to material learned in Emergency Medical Technician. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic in the laboratory environment, area hospitals and advanced life support EMS ambulances. There is emphasis on assessment based learning and complies with National DOT EMT-Basic curriculum.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1119C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2425L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

permission of the instructor

Corequisite(s):

EMS 2233 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program

Corequisite(s):

EMS 2231C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):

EMS 2435L

Corequisite(s):

EMS 2232C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

EMS 2232C , EMS 2436L and permission of the instructor

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based

and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate and CPR for Health Care Providers certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certificate or permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

EMT certification or permission from the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2905 - Independent Study: Emergency Medical Services

A defined independent study which is pursued under direct supervision of a faculty member and recorded through departmental procedures. Designed to provide an in-depth exploration of a special or advanced topic in the Emergency Medical Services field. Activities include targeted readings and research, as well as a final project or portfolio. Departmental approval is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor/department.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. This course may be taken up to three times for credit.

EMS 2940 - Internship: Emergency Medical Services

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Philosophy PHI 2010 - Introduction to Philosophy

Central concepts of philosophy are developed, including a description of the main philosophical problems involved through ancient, medieval, and contemporary thought. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

PHI 2600 - Introduction to Ethics

Ways to frame and resolve ethical issues are studied. Major historical theories including consequentialism, deontology, and virtue ethics are presented in moral arguments and narratives. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

PHI 2930 - Philosophy – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Photography PGY 1220C - Commercial Photography I

A beginning course that introduces students to the procedures and aesthetics of developing photographic illustrations for industrial and advertising use. Students will gain experience using a high quality digital studio camera, electronic lighting, and digital applications of their work. It is recommended that students take PGY 1801C prior to or at the same time as this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

PGY 1401C - Basic Photography

A beginning course in black and white photographic and darkroom technique. Students will learn the functions of their camera and darkroom equipment. Students will apply their technical knowledge to various artistic challenges. Access to a 35mm camera with manual mode required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PGY 1405C - Advanced Black and White Photography

An advanced course in black and white photography. Students will be presented with more demanding creative challenges and will be exposed to a variety of advanced procedures in the darkroom. Access to a 35mm camera with manual mode required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PGY 1401C or equivalent.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to

procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:

▲Technology-Across-the-Curriculum Course.

PGY 2221C - Commercial Photography II

As advanced a course that allows the student to expand their skill set in producing photographic illustrations for industrial and advertising use. Students may explore product, portrait, and on-location commercial photographic projects.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1220C and PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 2802C - Digital Photography II

An intermediate-level photography course where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

PGY 2804C - Digital Photography III

An advanced-level photography courses where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PGY 2802C .

Note:

▲Technology-Across-the-Curriculum Course.

Physical Education HLP 1081 - Wellness: Practice and Theory

A course designed to promote wellness through assessment, instruction and fitness programs which, if applied, will enable the individual to achieve and/or maintain a high quality of health and fitness throughout life. Based on assessment test results a physical examination by a physician may be recommended.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

PEL 1212A - Advanced Softball

Instruction, practice, and participation in advanced softball. The continuous development of physical skills is of major importance in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PEL 1213 - Advanced Softball II

This course is a continuation of Advanced Softball, which consists of instruction, practice, and participation in advanced softball. The continuous development of physical skills is of major importance in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

PEL 1212A (Athletes)

PEL 1217A - Advanced Baseball

Instruction, practice, and participation in advanced baseball. The continuous development of physical skills is of major importance in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PEL 1219 - Advanced Baseball II

This course is a continuation of Advanced Baseball, which consists of instruction, practice, and participation in advanced baseball. The continuous development of physical skills is of major importance in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

PEL 1217A (Athletes)

PEL 1624M - Advanced Basketball (Men)

This course is a high intensity, drill-oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PEL 1624W - Advanced Basketball (Women)

This course is a high intensity, drill oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including: rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PEL 1626M - Advanced Basketball II (Men)

This course is a continuation of Advanced Basketball for Men, which consists of a high intensity, drill -oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

PEL 1624M (Athletes)

PEL 1626W - Advanced Basketball II (Women)

This course is a continuation of Advanced Basketball for Women, which consists of a high intensity, drill -oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

PEL 1624W (Athletes)

PEM 1131A - Strength Training

This course is a high intensity lecture/demonstration and flexible lab hour weight training program designed to increase the size, strength, and endurance of the skeletal muscle system. Instruction includes, but is not limited to, weight training safety, etiquette, history, and nutrition. Instruction will be given in the design of progressive resistance programs to increase total body efficiency and to meet the objectives of the individual student. Students are responsible for determining fitness for training, and those with medical problems which restrict personal activities are encouraged to obtain medical clearance before enrolling in the course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PEM 2108 - Fitness Lab

Instruction and participation in an exercise program with emphasis on muscle endurance, strength and flexibility.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

HLP 1081 or approved wellness assessment by the department chair.

Note:

This course may be taken up to four times for credit.

PET 1000 - Introduction to Physical Education

A study of the history of physical education and sport with particular emphasis placed on present practices and trends.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PET 2622 - Care and Prevention of Athletic Injuries

Designed to provide students with a basic knowledge of the care, prevention, and rehabilitation of injuries received during participation in physical education activities to include the effects and dangers of drug use including performance enhancing drugs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

Physical Science AST 1005 - Introduction to Astrobiology

This course will explore the scientific evidence for the possibility, probability, and potential nature of life that might exist beyond the Earth. Contemporary discoveries about current and past conditions suitable for the origin of life on Mars and some of the moons orbiting other planets in our own solar system are reviewed in the context of what we understand about life on Earth. The question of life in other solar systems is also covered. Space travel and problems regarding intelligent extra-terrestrial beings visiting the Earth and intelligent life beyond the Earth but still within our own solar system are also discussed. All this is done in a fashion which integrates the various branches of science required to understand life beyond the Earth: Astronomy, Biology, Chemistry, Geology, and Physics. There are no prerequisites for this course and it may be taught in a team fashion by faculty members from various scientific disciplines.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ISC 1003 - Natural Disasters – Causes, Consequences, Human Response

This interdisciplinary course investigates natural catastrophic events, such as earthquakes, volcanic eruptions, tsunamis, hurricanes and floods. This class will use an environmental studies approach to examine how modern society exacerbates the damage caused by these natural phenomena and methods to mitigate human suffering. The student will gain an appreciation of humankind’s relationship to the natural environment.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

ISC 2210C - Integrated Science and Math

This course offers students the opportunity to see and apply fundamental ideas in science and mathematics relative to life on Earth from a qualitative perspective. Students will read about and research contemporary topics from the physical sciences, life sciences, mathematics and engineering and participate in problem solving activities which illustrate and apply the concepts in laboratory and field trip settings.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

instructor permission required.

Note:

This course may be taken up to two times for credit.

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

PHY 1020 - Physical Science

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020L - Physical Science Laboratory

A science laboratory course designed to supplement principles covered in Physical Science. Specifically experiments in motion, forces, light, electricity, thermodynamics, astronomy, earth science and meteorology. It is recommended that the student have previously taken PHY 1020 or be currently enrolled in PHY 1020 .

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PSC 2905 - Independent Study – Physical Science

Directed study and individual projects designed to meet the needs of students interested in a specialized area of the physical sciences for which present course availability is limited. Meets specific general education requirements.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

Physics PHY 1053C - Physics I

The first half of a two term sequence of non-calculus physics designed for the nonphysical science major. Physics I covers the areas of mechanics, mechanical energy, temperature and heat. The entering student is assumed to have a working knowledge of basic algebra and trigonometric functions.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

MAC 1114 .

PHY 1054C - Physics II

The second half of a two term sequence of noncalculus physics designed for the nonphysical science major. Physics II covers the areas of electricity, magnetism, light, quantum theory, atomic and nuclear structure, and elementary nuclear processes.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PHY 1053C or equivalent.

PHY 2048C - College Physics I

The first of a two-course sequence in calculus-based college physics designed for engineering, physical science, and pre-professional studies majors. This course covers mechanics (statics and dynamics), rigid-body dynamics, fluids, and thermodynamics.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prereq/Corequisites:

MAC 2311 .

PHY 2049C - College Physics II

This course is the second in the physics sequence. Topics covered are wave theory, electrostatics, magnetostatics, EM fields and waves, DC circuits, and AC circuits. This is a preparatory class for students taking circuits and electronics classes in upper division science and engineering courses.

Credit Hour(s): 4 Credit Hours When Offered: (Spring, or offered as needed) Prerequisite(s):

PHY 2048C , MAC 2312

Corequisite(s):

MAC 2312 . In special circumstances PHY 2048C and PHY 2049C can be taken out of sequence with instructor approval.

Political Science POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

POT 1002 - History and Ideas of Political Science

This course reviews classical ideas, political theory and institutions from a historical and comparative viewpoint. It examines the rise of the State, its organization, economic systems, the use of force, and persuasion. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Psychology CLP 1001 - Personal Adjustment

Psychology of adjustment, application of psychological theory for problem solving and better mental health. An examination of psychological defense mechanisms and adaptive behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CLP 2140 - Abnormal Psychology

A study of the different problems in psychopathology, including anxiety, depression, social deviance, psychosis, schizophrenia, mental retardation and general brain dysfunction of both children and adults, with emphasis on descriptive etiology, known causes, and treatments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PSY 2012 .

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Public Administration PAD 3003 - Public Service Operations

An introduction to public administration and policy in America. This course is designed to provide undergraduate students a basic understanding and appreciation of the administration of the public sector. It is intended to provide an overview of public administration for students interested in public service and for students, who as good citizens, want an appreciation of the complexities of public management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 3393 - Advanced Emergency Management

This course examines functional demands that emergency managers should be aware of in crafting emergency management policies and programs. Students investigate how public policy choices impact emergency planning and the consequences of a disaster. It is designed to help the student develop an in-depth understanding of overall emergency management principles, practices, and standards in the local, national, and international environments.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

upper division standing.

PAD 3820 - Public Safety System Integration

This course compares and contrasts the various components of the public safety sector. The course examines the working relationship between public safety organizations and the effectiveness of the various service delilvery models.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

PAD 3874 - Community Relations

This course will expose the student to community relations theory and practice within a broad range of public safety organizations. Students will understand why positive community perception of public safety is critical to funding and operational effectiveness. Students will explore the public safety responsibility in establishing business continuity both in preplanning and following a disaster. Each student will gain the insight and skills necessary to be effective in the community relations function of public safety administration.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

PAD 3882 - Issues in Public Service Administration

This course focuses on current issues and trends in the field of public service administration. The course is structured to introduce management and administrative topics in public service, examine the implications to the field, and reformulate recommendations. This course will begin developing skills in project design and presentation. This course will enhance critical thinking skills.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

upper division standing.

PAD 4878 - Capstone: Public Service

This course provides an opportunity for the student to complete a professional project and apply information and skills studied in core and concentration program courses under the direction of the professor. Successful completion of the course requires demonstration of achievement of the program's learning outcomes. This course should be completed in the last term before graduation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

upper division standing.

PAD 4933 - Special Topics in Public Administration

This is an individual or group course designed to provide students with the opportunity to pursue a special topic(s) from the area of public administration in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

Upper division standing and permission of the instructor.

Note:

This course may be taken up to three times for credit.

PAD 4940 - Internship: Public Service

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

upper division standing and permission of instructor.

Radiography RTE 1000 - Introduction to Radiologic Technology

This course is designed to provide an overview of the history of radiography and the role and scope of practice of the practitioner in the healthcare delivery system. Organizations, accreditation, federal agencies, regulatory agencies (including OSHA) and professional credentialing will be discussed. Content includes a fundamental background in medical law, ethics, human diversity and patient consent. The student will examine a variety of ethical issues and dilemmas found in clinical practice, as well as developing a better understanding of patients, the patient’s families, and professional peers through comparison of diverse populations based on value systems, cultural and ethnic influences, communication styles and socioeconomic influences. Radiographic Medical Terminology will be covered.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1111 - Introduction to Radiographic Patient Care

This course is designed to prepare radiography students to provide basic patient care. Basic concepts of patient care will be described, as well as infection control procedures and standard precautions. This course includes hospital specific training. Health risks, life stages, HIV/AIDs and domestic violence will be discussed. This course also includes an introduction to medical and radiographic terminology. Topics include vital signs, venipuncture, body mechanics and transport, verbal/nonverbal communication, and some pharmacology.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1418 - Radiographic Techniques I

This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiographic images. This course introduces the student to a comprehensive study and theory of the production of x-rays and primary exposure factors of radiographic imaging. The image parameters of density, contrast, recorded detail, image distortion and blur will be studied as well as ancillary devices and equipment required to produce a quality radiographic image. Film and digital imaging with related accessories will be emphasized. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Radiography Program.

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1457 - Radiographic Techniques II
This course is a continuation of RTE 1418 Radiographic Techniques I , and is designed to introduce the student to various specific radiographic methods and techniques, such as automatic exposure control, fluoroscopy and image intensification, macroradiography, subtraction radiography, conventional tomography, digital image receptors, and digital image acquisition and manipulation. The student will also be instructed in calculating heat units, tube rating charts, anode cooling chart, and characteristic curves.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
RTE 1418 .

Corequisite(s):
RTE 1613 .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1503C - Radiographic Procedures I
This course is designed to provide the Radiography student with instruction in radiographic examinations of the chest, abdomen, upper extremity and lower extremity. An introduction to medical and radiographic terminology, radiographic anatomy, and image critique are also included.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Radiography program.

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1513C - Radiographic Procedures II
This course is a continuation of RTE 1503C . It is designed to provide the student with instruction in radiographic procedures and anatomy in the distal extremities, hip region, spine, ribs, and sternum and the cranium. Critical thinking, medical and radiographic terminology, as well as image critique are emphasized.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):
RTE 1503C , RTE 1804L

Corequisite(s):
RTE 1814L .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1613 - Radiographic Physics
This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Course content also includes the basics of magnetism, electricity, motors, generators, rectifying systems, x-ray tube and filament circuitry. Topics in electromagnetism such as self and mutual induction, high voltage transformation, and AC rectification will be emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
RTE 1418

Corequisite(s):

RTE 1457 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1804L - Radiography Clinical Education I

This course involves the practical application of the theories covered in RTE 1503C and RTE 1000 . Rotations provide experience with various imaging systems, protocols, and patient care. Students observe, assist and perform basic radiographic procedures (chest, abdomen and extremities) under direct supervision. This course emphasizes patient care and critical thinking. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1814L - Radiography Clinical Education II

This course is a continuation of Radiography Clinical Education I. This clinical training emphasizes lower and upper extremity. Medical and radiographic terminology, patient care, critical thinking and communication skills are emphasized. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1804L

Corequisite(s):

RTE 1513C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1824L - Radiography Clinical Education III

This course is a continuation of Radiography Clinical Education II. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I and II. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, critical thinking, imaging and exposure techniques, radiation protection application and image processing will be emphasized. This rotation covers clinical experience in all phases of fundamental radiologic procedures and image critique. Students will rotate through ancillary departments in this course.

Credit Hour(s): 4 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1814L

Corequisite(s):

RTE 2523C .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2061 - Radiographic Preparation for Practice

This course is designed review information in preparation for the student to take the American Registry of Radiologic Technologist (ARRT) registry examination. The course will cover patient care and education, image production, equipment operation and maintenance, radiographic procedures and radiation protection. The student will also be given simulated registry examinations for practice and assessment purposes.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2385 - Radiographic Protection and Biology

This course is designed to provide the student with an overview of the principles of interaction of ionizing radiation with lining systems. Ionizing effects on molecules, cells, tissues and the body as a whole are presented, along with factors affecting biological response, including; acute, chronic, stochastic and non-stochastic effects. This course is also designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated, as are the various methods of monitoring radiation exposure and acceptable dose limit values.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1000 , RTE 1418 , RTE 1457 , RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2473 - Radiographic Quality Assurance

This course is designed to introduce the student to the quality management of medical imaging, including quality control procedures and image analysis/critique of radiographs. This course will include theory and practical applications to routine quality control check on routine, fluoroscopic, mobile, and tomographic radiography equipment. Quality control tests on ancillary equipment, such as film processor, view boxes, grids and leaded protective equipment are also included. Acceptable parameters for QC tests, as established by various regulatory agencies will also be presented. This course teaches the student to critically analyze radiographic images for image quality and diagnostic value, as well as formulating corrective action as needed. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1418 , RTE 1457

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2523C - Radiographic Procedures III

This course is a continuation of RTE 1513C covering cranium procedures and positioning. It is designed to provide the student with instruction in more complex radiographic procedures such as fluoroscopy, urinary studies, bone age, trauma, pediatrics, mobile and surgical radiography. Included is instruction in additional modalities and studies such as CT, MRI, arthography, myelography, and vascular studies. Attention will be given to the specialized equipment, contrast media, critical thinking and techniques necessary to perform these procedures. Radiographic anatomy, pathology, and critique of images are included in this course.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

RTE 1513C

Corequisite(s):

RTE 1824L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2571 - Introduction to Computed Tomography

This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):

RTE 1457

RTE 2782 - Radiographic Pathology

This course is designed to introduce theories of disease causation and the pathophysiologic disorder that compromise healthy persons. Etiology, pathophysiologic responses, clinical manifestations, and radiographic appearance of alterations in body systems will be presented. Emphasis will be placed on pathological findings on diagnostic radiographic images, in both conventional and digital formats.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2854L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2844L - Radiography Clinical Education IV

This course is a continuation of RTE 1824L . The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I, II and III. The student will gain experience and develop clinical competence in specialized imaging procedures, and mobile, surgical and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):

RTE 1824L

Corequisite(s):

RTE 2385 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2854L - Radiography Clinical Education V

This course is a continuation of RTE 2844L . The terminal objective for this course is to prepare the student for employment as an entry level technologist. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I-IV and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 2844L

Corequisite(s):

RTE 2061 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2910 - Radiographic Evidence Based Practice

This course is designed to develop the student's research, writing and oral presentation skills; while completing assignments, both independently and collaboratively, with minimal direction and supervision. Methods of research, appropriate style of writing, citing work, and using APA format will be covered.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):

RTE 2523C

Corequisite(s):

RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

Reading REA 0007 - Developmental Reading I

This course is designed to improve the student's ability to comprehend college level written material (not applicable for degree completion). Conducted in a lecture/lab setting, this course is designed to improve vocabulary, comprehension, listening, and study skills. Also covered (at a basic level) are the skills that conform to PERT standards. Activities and materials are designed to meet the students specific needs as determined by diagnostic instruments. Placement is determined by a score of 50-83 on the PERT. Students must pass with a "C" or better to move on to REA 0017 .

Credit Hour(s): 3 College Prep Credits When Offered: (Fall, Spring, Summer) Corequisite(s):

SLS 1101 .

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

REA 0017 - Developmental Reading II

This course is designed to increase the student's ability to comprehend college level written material (not applicable for degree completion). Conducted in a lecture/lab setting, this course emphasizes the development of the higher level reading skills and vocabulary needed for literal and critical interpretation of passages similar to those used in college textbooks. Students may exit from Developmental Reading II only after passing the course work and obtaining a passing score on the State Reading Comprehension test.

Credit Hour(s): 3 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Grade of "C" or better in REA 0007 or score of 84-103 on the PERT or elective basis score 104 or higher on the PERT

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

REA 0056 - Developmental Reading Module

This course is designed to increase the student's ability to comprehend college-level, written material (not applicable for degree completion). Conducted in a lab setting, this course is self-paced, designed to allow students to focus on their individual development of higher level reading skills and vocabulary needed for literal and critical interpretation of passages similar to those used in college texts. This course may be taken in place of REA 0017. Students must pass the class with a "C" or better and obtain a passing score on the end of course exam.

Credit Hour(s): 2 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Students must score 94-105 on the PERT or elective basis score 106 or higher on the PERT.

Note:

*College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

REA 1205 - Reading Across the Genres I

This college-level reading course employs a variety of literary genres as the source material for building student skills in comprehension, context clues, reading speed, critical analysis, vocabulary, and other related reading skills. Students will be exposed to numerous styles and levels of reading material including novels, short stories, critical essays, drama, news reporting. Students will also develop a personal reading preference profile and learn how to identify books, magazines and other reading material commensurate with that profile.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PERT placement score of 106 or higher.

REA 2105 - Advanced Reading

An individualized approach designed to improve reading speed, comprehension, and critical analysis skills while reading various types of material for either educational or recreational purposes. Activities and materials are individualized to meet specific needs of students as determined through diagnostic instruments. Helpful for those students whose speed, comprehension, and analysis skills are weak or inadequate for proper text book analysis.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

PERT placement score of 106 or higher.

Note:

▲Technology-Across-the-Curriculum Course.

REL 2300 - Introduction to World Religions

This course will explore the principles and practices of the world's major religious traditions. The religions will be studied in their historical and contemporary forms. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

REL 2930 - Religion – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Safety and Quality Control ETI 1411 - Advanced Manufacturing Processes

This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1420 - Properties of Materials and Cutting Tools

This course is designed to provide the student with an introduction to the basic properties of materials, principles and processes in the metal working and plastics field, and tools and machinery involved in manufacture of metals of plastics. This course covers non-chip producing and chip producing manufacturing processes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1710 - Occupational Safety

A basic course in occupational safety and health covering such topics as: theories of accident causation, workplace hazards, hazard analysis and prevention, accident reporting, OSHA, ergonomics, product safety, workers' compensation, and stress on the job.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1713 - Implementing Total Safety

A course on implementing the total Safety Management (TSM) approach to workplace safety and health. Major topics include the TSM Steering Committee, TSM Facilitator, and improvement project teams (IPTs).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1715 - ISO 14000 - Environmental Management

ISO 14000 is the international standard for Environmental Management Systems that promote environmental protection and prevention of pollution in balance with socioeconomic needs. This course prepares individuals to guide an organization through the steps necessary for ISO 14000 registration and subsequent audits and triennial re-registration, or to be effective participants (employees of any rank) in an organization already registered to ISO 14000.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2110 - Total Quality Tools

This course prepares students to effectively solve business/process/product problems, track process performance, find process and product improvement opportunities, and validate improvements made, using the necessary intellectual tools and procedures including: Five-S, flow charting, Pareto analysis, cause and effect diagrams, histograms, check sheets, scatter diagrams, stratification, statistical process control, failure mode and effects analysis.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2111 - Quality Tools II

This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2114 - Benchmarking

A course covering the fundamentals of benchmarking. Major topics include: rationale for benchmarking, management's role in benchmarking, obstacles to benchmarking, selection of processes to benchmarking, and acting on benchmarking data.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2117 - Introduction to Total Quality Management

Total Quality Management (TQM) is the proven management system used by successful world-class private and public organizations of all kinds worldwide. Developed and propagated during the latter part of the 20th century and further evolving in the early 21st century, TQM continues to make organizations more effective and competitive in the global economy. This course provides students with a comprehensive understanding of the contemporary management philosophy, concepts, tools, and techniques of Total Quality and related quality management initiatives including ISO 9000, Six Sigma, and Lean. Individuals employed by organizations contemplating, or already using, TQM, ISO 9000, Six Sigma, or Lean should consider this course as a way to become a more effective employee regardless of rank.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2131 - Statistical Process Control

A course covering the fundamentals of SPC. Major topics include: rationale for SPC, inhibitors of SPC, management’s role in SPC, the quality tools, and control charts.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2190 - Implementing Total Quality

This course prepares individuals to guide a successful implementation of Total Quality Management in any kind of organization, or to be an effective participant (employee of any rank) in a Total Quality implementation. The course features a 20 step process for implementation, each fully detailed, developed, and sequenced, to apply to any organization. Emphasis is placed on the critical role of executive level leaders, and variation among organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Prerequisite(s):

ETI 2117 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Sign Language ASL 1140 - American Sign Language I

Introduces the student to the basic vocabulary and finger spelling of American Sign Language. Emphasis will be on learning to express this language in a simple form and have a basic receptive language competency.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ASL 1150 - American Sign Language II

This course increases the student's American Sign Language vocabulary and uses more complex expression of thoughts, ideas, and emotions and increases the receptive and expressive proficiency of the student in both sign and finger spelling.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ASL 1140 or an equivalent course with a grade of "C" or better

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ASL 2160 - American Sign Language III

A conversational course in American Sign Language utilizing skills and vocabulary from American Sign Language I and II and building on these to form more complex expressions in American Sign Language. Impromptu and planned stories, dialogues and skits will be performed. Receptive and expressive finger spelling will be advanced. No voice will be used for the majority of classroom time.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ASL 1150 or an equivalent course with a grade of "C" or better.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Social Sciences DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

ISS 1905 - Independent Study – Social Science

Directed study and individual projects designed to meet the needs of students interested in a specialized area of the social sciences for which present course availability is limited.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

This course may be taken up to four times for credit.

Sociology SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2430 - The Family and Society

An examination of the problems which arise out of participation in marriage, family and community situations. Designed to provide students with a basic understanding of the dynamics of family interaction, the effects upon the children, and the family's relationship to and participation in the community.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

Spanish SPN 1120 - Spanish I

Pronunciation and grammatical structures of Spanish, with emphasis upon balanced development of all four skills – listening, speaking, reading, and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SPN 1121 - Spanish II
Pronunciation and grammatical structures of Spanish, with emphasis upon balanced development of all four skills – listening, speaking, reading and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
SPN 1120 or an equivalent course with a grade of “C” or better.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SPN 2220 - Spanish III
Intermediate level review of grammar, readings in Spanish Literature, and development of conversational and writing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
SPN 1121 or an equivalent course with a grade of “C” or better.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SPN 2221 - Spanish IV
Completion of intermediate level review of grammar, readings in Spanish literature, and development of conversational and writing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

SPN 2220 or an equivalent course with a grade of “C” or better.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

Speech and Debate SPC 1006 - Essentials of Speech
This course can be used to satisfy missing transfer requirements and/or oral components required in certain programs. Individuals participate in the preparation and presentation of speeches.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 1608 - Public Speaking
Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication
This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2511 - Discussion and Debate
This course is designed to provide learning experiences in rational decision making incorporating the techniques of persuasion through organized procedures for argumentation, debate and discussion.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
membership on forensic team.

Theater THE 1905A - Independent Study – Theater

A defined independent study which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule. Departmental approval required. Placement test is required. The course includes Writing-Across-The-Curriculum. If used to meet Gordon Rule requirements for general education, a minimum grade of “C” is also required.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
Approval from department chair, a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

THE 2000 - Theatre Appreciation

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2071 - Humanities – Cinema Appreciation

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature

Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2820 - Musical Theater Workshop

An introduction to creative dramatics and children's theater. Topics span a wide range of interests; creative experience, children and theater, workshop procedure, script selection, rehearsal and performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

THE 2821 - Musical Theater Workshop II

Creative dramatics introduces the many elements of theater: dance, voice and musical theater. Topics span a wide range of interests: the creative process, workshop procedures, rehearsal and performance. Creative Dramatics will focus on producing a final performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
THE 2820 .

THE 2930 - Theater – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

TPA 1210 - Stagecraft

This course is an introduction to the principles of stagecraft: stage terminology, stage safety, instruction in proper use of shop tools, basic theater construction methods, understanding of theatrical rigging, and understanding of general background practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 1290 - Technical Theater Lab I

An introduction to technical theater and scene technology. Topics include scene drawings, safety and health, stage facility, basic crafts, two and three-dimensional scenery, scene painting, scene assembly, rigging, properties, special effects and shop organization.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPA 1210 .

TPA 2220 - Technical Theater Lab II

An introduction to stage lighting. Topics include history of stage lighting, fundamentals of light and illumination, lighting control, and lighting practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPA 1210 .

TPA 2232 - Introduction to Costuming Technology

An introduction to costume techniques and wardrobe practices. Topics span a wide range: costume construction techniques, problems in costumes, costume history, construction styles, sewing machine practices, seam finishes, flat pattern layout and production techniques. This course is intended to develop practical experiences in theater costumes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 2276C - Entertainment Technology - Crafts

This course presents the practices and principles of advanced woodworking, welding, smithing, casting, ceramics, plaster work, fiberglass and plastic technology for the entertainment industry. State of the art tool technology, shop and field practice, health and safety standards will be emphasized. These crafts are entertainment industry oriented that will use items created in a realized production.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPA 1210 .

TPA 2600 - Stage Management

This course is an introduction to the study and application of stage management as it relates to the manager portfolio, the stage manager morgue, rules and regulations relating to I.A.T.S.E., rules related to contracts, competence in stage management, proper communication with directors, technical directors, designers, cast members and crews, competence in technical discussion areas and basic first aid.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 1190 - Rehearsal and Performance I

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
experience in high school or a desire to learn.

TPP 1191 - Rehearsal and Performance II

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 1190 .

TPP 1192 - Rehearsal and Performance III

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 1191 .

TPP 2110 - Acting I

Through in-class performance the student will develop an understanding and proficiency of those skills of movement, voice, and expression which are required of a theatrical performer.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2111 - Acting II

Through in-class performance, the student develops an understanding and proficiency in styles of acting from classic through modern.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2110 .

TPP 2118 - Acting III

This course is a continuation of TPP 2111 , Acting II, with specialization in characterization utilizing scripted materials and scene study.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2111 .

TPP 2119 - Acting IV

This course is a continuation of TPP 2118 , Acting III, with advanced study of acting skills and script analysis with specialization in performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2118 .

TPP 2250 - Introduction to Musical Theatre

Introduction to the study of Musical Theater analysis, creation, and performance with an emphasis on singing, dancing, and acting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2301 - Directing I

A beginning course in the study, development and training in directing for the theater. Although not a prerequisite, students are encouraged to take Acting I and II before Directing I.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2302 - Directing II

Directing II is a continued study of the basic principles of directing for the theater with emphasis in the continued study, development and training in directing for the theater.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2301 .

TPP 2930 - Theater Performance – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

Welding PMT 0011 - Welder Helper

This course is an introductory course in welding covering basic of gas and arc welding, shop math, shop safety precaution and the use of safety procedures and protective equipment, practical and theoretical training in the use of shield metal arc welding (SMAW) and oxy-acetylene welding principles, practices and equipment.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0012 - Welder, Shielded Metal Arc

This course shielded metal arc welding(SMAW) principles to include visual examination skills, drawing and welding symbols, metal identification, arc cutting principles and practices, language and terminology, critical thinking skills, shop safety precaution, health, environmental management and regulatory compliance.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0011 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0013 - Welder, Gas-Metal Arc

This course covers gas metal arc welding (GMAW) principles to basic and intermediate skills development, information technology tools, importance of ethical and legal responsibilities, and personal money management concepts, procedures and strategies.

Credit Hour(s): 125 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0012.

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0014 - Welder, Flux Cored Arc

This course covers flux core arc welding (FCAW) principles and skills development, organization roles, leader and team work development, employability and entrepreneurship skills.

Credit Hour(s): 100 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0013 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0015 - Welder, Gas-Tungsten Arc

This course covers gas tungsten arc welding (GTAW) principles and basic and intermediate skills development.

Credit Hour(s): 175 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0014 .

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college

credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

PMT 0016 - Welder, Pipe

This course covers pipe welding principles and basic and intermediate skills development.

Credit Hour(s): 270 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

PMT 0015

Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Zoology ZOO 1010C - Zoology

An introduction to the major concepts of animal life, to include the structure, taxonomy, evolutionary relationships, and natural history of the major animal groups.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

General Education Requirements

General Education Requirements for All Degrees

All NWFSC degree programs contain both specialized courses and general education courses. Bachelor of Applied Science, Bachelor of Science and Associate in Arts students complete at least thirty-six (36) general education credits from five subject area categories. Associate in Science students complete at least eighteen (18) general education credits from five (5) subject areas. The general education component of each program is designed to further the mission and goals of the college. Upon successful completion of general education coursework, the student will:
demonstrate proficiency in reading, writing and speaking;
apply reflection, analysis, synthesis, logical reasoning and evaluation to formulate judgments, reach decisions and solve problems;
understand and apply mathematical and scientific principles and methods;
find, evaluate, organize and use information accurately and effectively;
participate actively as informed and responsible citizens in social, cultural, global and environmental matters.
The NWFSC General Education Program is designed to conform to all applicable regional accreditation criteria, Florida State Board of Education Rules, and the Florida Statewide Articulation Agreement. To that end, the program incorporates a Technology-Across-the-Curriculum component, a Speaking-Across-the-Curriculum requirement, and minimum grade and writing requirements as stipulated in Florida's "Gordon Rule."

Technology-Across-the-Curriculum

Competence in basic technology skills is an essential component of life. Accordingly, NWFSC has incorporated technology throughout its programs and courses. Each two-year degree program contains at least one course that requires the student to demonstrate fundamental technology skills. All English Composition I classes are taught in a computer classroom, and students are required to complete assignments and other activities on a computer. Microcomputer Applications is a requirement or prerequisite course in many A.S. degrees. In support of the technology requirement, NWFSC offers student access to and technical supoort in open computer labs at all college sites.
B.A.S., B.S., A.A. and A.S. degree-seeking students will meet the computer technology skill requirement through completion of ENC 1101 and/or CGS 1100 and may encounter more advanced computer skills in other elective, technical or general education courses. See the course descriptions section of this catalog for the courses designated as part of the Technology-Across-the-Curriculum program.

Writing-Across-the-Curriculum

All associate degree students must complete at least one three-credit writing class as part of their general education program. Additional writing activities are required in all general education humanities courses. Bachelor of Applied Science, Bachelor of Science and Associate in Arts students must complete twelve (12) to fifteen (15) college credits from designated general education Gordon Rule Communication, Humanities and Social Science subject areas. See the A.A. General Education section of catalog for specific courses.

Speaking-Across-the-Curriculum (SATC)

Oral communication is an integral part of the NWFSC general education program; thus several general education courses include graded activities designed to build speaking and communication skills. All B.A.S., B.S., A.A., and A.S. degree-seekers must satisfy the Speaking-Across-the-Curriculum requirement and may do so by completing at least one of the general education courses designated as part of the Speaking-Across-the-Curriculum component of the General Education program. Students who successfully complete other speech, forensics, or oral interpretation courses may request that such courses be used to satisfy this requirement. See the A.A. General Education section of catalog for specific courses.

Gordon Rule Courses

Florida's Gordon Rule (FAC Rule 6A-10.030) includes a legislative mandate that all baccalaureate and Associate in Arts graduates successfully complete specific math and writing requirements. B.A.S., B.S. and A.A. graduates must have successfully completed at least 21 college credits from designated general education Gordon Rule Communication, Humanities, Social Science and Mathematics subject areas. A.S graduates must have successfully completed at least 9-12 college credits from designated general education Gordon Rule Communication, Humanities, Social Science and Mathematics subject areas (SATC Humanities may be replaced with General Humanities in the AS degree as long as Speaking-Across-the-Curriculum is met elsewhere. General Social Science may replace Gordon Rule Social Science, thus lowering the Gordon Rule requirement for the AS degree from 12 to 9 college credits).
All B.A.S., B.S., A.A. and A.S. degree-seekers must also earn a grade of "C" or higher in each Gordon Rule course used to satisfy general education requirements, whether the credits are earned at NWFSC or elsewhere.

Diversity Focus for Teacher Education Programs

Students who plan to enter any of the Teacher Education programs leading to certification must complete 6 semester hours of coursework with an international or diversity focus, in addition to Introduction to Diversity for Educators. Any course identified as meeting NWFSC's Diversity Requirement will fulfill this requirement, including foreign language courses.

AA Degree General Education Requirements

Associate in Arts students must complete 60 college credits to complete the degree; 36 of these credits must be general education credits distributed across five subject area categories. A student must satisfy the required number of credits in each category. No more than 1 credit may be selected from the list of General Education Electives (category F).
The remaining 24 elective credits should be selected in consultation with an advisor, who will assist the student in selecting college credits most advantageous to the student's educational goals.

AS Degree General Education Requirements

All A.S. degree programs at NWFSC require a minimum of 18 college credits in general education. Unless otherwise specified in the program requirements, students must complete one course from each of the following categories to meet general education requirements. A.S. degree-seeking students must also meet Speaking-Across-the-Curriculum , Technology-Across-the-Curriculum and Gordon Rule course and minimum grade requirements described in the General Education for All Degrees section of the catalog.

Bachelor Degrees

Bachelor of Applied Science (BAS) Degree

Bachelor of Applied Science Degree in Project Management (BAS)

NWFSC is approved by the State of Florida Board of Education to offer the Bachelor of Applied Science Degree in Project Management (BAS).
The BAS degree in Project Management offers students a unique opportunity to gain the skills and knowledge necessary for career advancement in a variety of areas. Program content has been developed with input from local employers and is reflective of traditional business management degrees, as well as of the technical skills identified by various professional organizations.
There are four pre-planned areas of emphasis in the BAS program. Areas of specialization include:
Acquisitions
Project Management
Quality Improvement
Technology Management
The BAS program provides a career-ladder for students who have already completed an associate's degree and who wish to continue their education at the bachelor's level, or beginning students may design a program of study for the degree as early as the freshman year if they have not yet obtained an associate's degree.
Coursework for the degree is designed with the working student in mind and is offered with classes available evenings, weekends, in concentrated fast-track terms, through eCampus/Distance Learning, or structured as "blended/hybrid" classes (part traditional classroom and part non-traditional format). Coursework incorporates internships, seminars, and other work-based learning activities designed to ensure students acquire the latest skills and content. Students receive the full range of articulation and transfer rights guaranteed by Florida law through common course numbering and the statewide articulation agreement.

Bachelor of Applied Science Degree in Management and Supervision (BAS)

NWFSC is approved by the State of Florida Board of Education to offer a Bachelor of Applied Science Degree in Management and Supervision (BAS).
The BAS degree in Management and Supervision offers students a unique opportunity to gain the skills and knowledge necessary for career advancement in a variety of areas. Program content has been developed with input from local employers and is reflective of traditional Business Management and Supervision degrees, as well as of the technical skills identified by various professional organizations.
There are four pre-planned areas of emphasis in the BAS Management and Supervision program. Areas of specialization include:
Healthcare Management
Human Resources Management
Public Service Management
Supervision
The BAS program provides a career-ladder for students who have already completed an associate's degree and who wish to continue their education at the bachelor's level, or beginning students may design a program of study for the degree as early as the freshman year if they have not yet obtained an associate's degree.
Coursework for the degree is offered with classes available during the day, evenings, weekends, in concentrated fast-track terms, through eCampus/Distance Learning or structured as "blended/hybrid" classes (part traditional classroom and part non-traditional format). Coursework incorporates internships, seminars, and other work-based learning activities designed to ensure students acquire the latest skills and content. Students receive the full range of articulation and transfer rights guaranteed by Florida law through common course numbering and the statewide articulation agreement.

Graduation Requirements for the BAS Degrees

Students seeking a Bachelor of Applied Science degree must meet the following requirements:
Complete applicable admission requirements for the program. See the Admissions section of the catalog.
Complete at least 25% of the course work towards the program at NWFSC.
Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued at NWFSC.

Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued, whether at NWFSC or by transfer.
Complete A.A. General Education requirements, including all Gordon Rule course requirements with minimum grades ("C").
Completion of two sequential credits in high school foreign language, a minimum of 6 credit hours in one foreign language at the college level or an appropriate score on an approved CLEP examination.
Successfully complete at least forty (40) credits of approved upper division coursework in the major.
Complete at least 50% of the upper division program course work in residence at NWFSC.
Complete a minimum of one hundred and twenty (120) college credits applicable toward the BAS degree.
Satisfy all outstanding obligations to the college.
Apply to graduate by the published deadline.

Management and Supervision - Health Care Management (BAS)

Admission Program of Study Code R200K State CIP Code 1105202991
See the BAS Management and Supervision 2014-2015 Flowchart.

Management and Supervision - Human Resources Management (BAS)

Admission Program of Study Code R200E State CIP Code 1105202991
See the BAS Management and Supervision 2014-2015 Flowchart.

Management and Supervision - Public Service Management (BAS)

Admission Program of Study Code R200G State CIP Code 1105202991
See the BAS Management and Supervision 2014-2015 Flowchart.

Management and Supervision - Supervision (BAS)

Admission Program of Study Code R200J State CIP Code 1105202991
See the BAS Management and Supervision 2014-2015 Flowchart.

Project Management - Acquisitions (BAS)

Admission Program of Study Code R100C State CIP Code 1105202021
See the BAS Project Management 2014-2015 Flowchart.

Project Management - Project Management (BAS)

Admission Program of Study Code R100D State CIP Code 1105202021
See the BAS Management and Supervision 2014-2015 Flowchart.

Project Management - Quality Improvement (BAS)

Admission Program of Study Code R100F State CIP Code 1105202021
See the BAS Project Management 2014-2015 Flowchart.

Project Management - Technology Management (BAS)

Admission Program of Study Code R100H State CIP Code 1105202021
See the BAS Project Management 2014-2015 Flowchart.

Bachelor of Science in Education (BSE) Degree

Bachelor of Science in Early Childhood Education, Birth through Four

The Bachelor of Science in Early Childhood Education, Birth through Four is designed to prepare students to work in programs serving children ages 0-4 years. Graduates will be prepared to advance in the Early Childhood career field. The degree offers a career ladder for students earning the Associate of Science in Early Childhood Education at NWFSC, which includes the state-mandated prerequisite courses. Students earning an A.A. may also enter this program after completing the state-mandated prerequisite courses. Coursework is designed for the working adult, utilizing weekend, evening, and hybrid classes.

Bachelor of Science in Education

NWFSC is approved by the Florida Board of Education to offer three bachelor's degrees leading to state certification in teacher education: the Bachelor of Science in Elementary Education, the Bachelor of Science in Middle Grades General Science Education and the Bachelor of Science in Middle Grades Mathematics Education. These degrees are designed to provide a career ladder for those who have already completed an Associate in Arts (A.A.) degree or have 60 hours of acceptable lower division coursework and who wish to continue their education at the bachelor's level. The Bachelor of Science in Elementary Education also includes endorsements in Reading and English as a Second Language.

Graduation Requirements for Bachelor of Science in Education Degrees

Students seeking a Bachelor of Science degree in must meet the following requirements:
Complete applicable admission requirements for the program. See the Admissions section of the catalog.
Complete at least 25% of the course work towards the program at NWFSC.
Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued at NWFSC.
Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued, whether at NWFSC or by transfer.
Earn a minimum grade ("C") in all upper division course work.
Successfully complete all coursework within the major field of study with a cumulative GPA of at least 2.50.
Complete A.A. General Education requirements, including all Gordon Rule course requirements with minimum grades ("C").
Completion of two sequential credits in high school foreign language, a minimum of 6 credit hours in one foreign language at the college level or an appropriate score on an approved CLEP examination.
Complete at least 50% of the upper division program course work in residence at NWFSC.
Pass the three Florida Teacher Certification Examinations: General Knowledge, Professional Education and appropriate Subject Area.
Complete a minimum of one hundred and twenty (120) college credits applicable toward the B.S. degree.
Satisfy all outstanding obligations to the college.
Apply to graduate by the published deadline.

Graduation Requirements for Bachelor of Science in Childhood Education, Birth through Four Degree

Students seeking a Bachelor of Science degree in must meet the following requirements:
Complete applicable admission requirements for the program. See the Admissions section of the catalog.
Complete at least 25% of the course work towards the program at NWFSC.
Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued at NWFSC.

Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued, whether at NWFSC or by transfer.
Earn a minimum grade ("C") in all upper division course work.
Successfully complete all coursework within the major field of study with a cumulative GPA of at least 2.00.
Complete A.A. General Education requirements, including all Gordon Rule course requirements with minimum grades ("C").
Completion of two sequential credits in high school foreign language, a minimum of 6 credit hours in one foreign language at the college level or an appropriate score on an approved CLEP examination.
Complete at least 50% of the upper division program course work in residence at NWFSC.
Complete a minimum of one hundred and twenty (120) college credits applicable toward the B.S. degree.
Satisfy all outstanding obligations to the college.
Apply to graduate by the published deadline.

Elementary Education (BSE)

Admission Program Objective Code S200E State CIP Code 1101312021
The first sixty credits in the following program of study are designed to prepare students not only for the A.A. degree, but also for the General Knowledge exam and Elementary Subject Area exam of the Florida Teacher Certification Exam (FTCE).
If you plan to be an elementary school teacher and are just beginning your A.A. degree, this program of study will best prepare you for that career choice. If you have already completed your A.A. degree and some of your general education courses differ from those listed below, your A.A. degree will still meet that component of the admission process; however, you may need to complete additional coursework, independent study, or workshops to be well prepared for the FTCE Elementary Subject Area exam. A passing score on the FTCE Elementary Subject Area exam is one of the graduation requirements for this degree. For a detailed summary of graduation requirements for this degree program, see the Bachelor of Science graduation requirement section.
Courses with the "C" designation include extra hours to accommodate field experiences.
Substitutions for any coursework in this program of study must be approved by the Teacher Education Program Director. Please note that some courses below may require lower division prerequisites not specified as program requirements. Requirements for Teacher Education programs may change due to legislative mandate. Candidates should request the most current requirements from the Teacher Education Program Director.

Middle Grades General Science (BSE)

Admission Program Objective Code S200S State CIP Code 1101313165
The first sixty credits in the following program of study are designed to prepare students not only for the A.A. degree, but also for the General Knowledge exam and Middle Grades General Science Subject Area exam of the Florida Teacher Certification Exam (FTCE).
If you plan to be a middle grades science teacher and are just beginning your A.A. degree, this program of study will best prepare you for that career choice. If you have already completed your A.A. degree and some of your general education courses differ from those listed below, your A.A. degree will still meet that component of the admission process; however, you may need to complete additional coursework, independent study, or workshops to be well prepared for the FTCE Middle Grades General Science Subject Area exam. A passing score on the FTCE Middle Grades General Science Subject Area exam is one of the graduation requirements for this degree. For a detailed summary of graduation requirements for this degree program, see the Bachelor of Science graduation requirement section.
Courses with the "C" designation include extra hours to accommodate laboratory and field experiences.
Substitutions for any coursework in this program of study must be approved by the Teacher Education Program Director. Please note that some courses below may require lower division prerequisites not specified as program requirements. Requirements for Teacher Education programs may change due to legislative mandates. Candidates should request the most current requirements from the Teacher Education Program Director.

Middle Grades Mathematics (BSE)

Admission Program Objective Code S200M State CIP Code 1101313112
The first sixty credits in the following program of study are designed to prepare students not only for the A.A. degree, but also for

the General Knowledge exam and Middle Grades Math Subject Area exam of the Florida Teacher Certification Exam (FTCE).
If you plan to be a middle grades math teacher and are just beginning your A.A. degree, this program of study will best prepare you for that career choice. If you have already completed your A.A. degree and some of your general education courses differ from those listed below, your A.A. degree will still meet that component of the admission process; however, you may need to complete additional coursework, independent study, or workshops to be well prepared for the FTCE Middle Grades Math Subject Area exam.
A passing score on the FTCE Middle Grades Mathematics Subject Area exam is one of the graduation requirements for this degree. For a detailed summary of graduation requirements for this degree program, see the Bachelor of Science graduation requirement section.
Courses with the "C" designation include extra hours to accommodate laboratory and field experiences.
Substitutions for any coursework in this program of study must be approved by the Teacher Education Program Director. Please note that some courses below may require lower division prerequisites not specified as program requirements. Requirements for Teacher Education programs may change due to legislative mandates. Candidates should request the most current requirements from the Teacher Education Program Director.

Early Childhood Education, Birth through Four (BSE)

Admission Program Objective Code S300 State CIP Code 1101312102
The Bachelor of Science in Early Childhood Education, Birth through Four is designed to prepare students to work in programs serving children ages 0-4 years. Graduates will be prepared for advancement in the Early Childhood career field. The degree offers a career ladder for students earning the Associate of Science in Early Childhood Education at NWFSC, which includes the seven state-mandated prerequisite courses. A.S. students will complete an additional 18 hours of General Education classes during their upper division coursework, after admission to the Early Childhood Education program. Students earning an A.A. may also enter this program after completing the state-mandated prerequisite courses. These students will complete technical classes during their upper division coursework after admission to the Early Childhood Education program. For a detailed summary of graduation requirements for this degree program, see the Bachelor of Science graduation requirement section.
Substitutions for any coursework in this program of study must be approved by the Teacher Education Program Director. Please note that some courses below may require lower division prerequisites not specified as program requirements.

Bachelor of Science in Nursing (BSN) Degree

The baccalaureate nursing program at NWFSC is accredited by the Commission on Collegiate Nursing Education, One DuPont Circle, NW, Suite 530, Washington DC 20036, (202) 887-6791. For more information regarding disclosure, please review pages 15-16 of the CCNE Procedures for Accreditation of Baccalaureate and Graduate Degree Nursing Programs (http://www.aacn.nche.edu/ccne-accreditation/Procedures.pdf). The program is an R.N. to BSN degree career ladder and is open to applicants who currently hold a valid Florida Registered Nursing license and have completed an accredited ADN or diploma program. The program can be completed in three to four semesters. Program content for the BSN program meets those specified in Florida's A.S. to B.S. Articulation Manual. All theory courses are taught on-line from the NWF State College Niceville Campus and clinical instruction targets the specific needs of Okaloosa and Walton healthcare providers.

Graduation Requirements for the BSN Degree

Students seeking the Bachelor of Science in Nursing (BSN) degree must meet the following requirements:
Complete applicable admission requirements for the program. See the Admissions section of the catalog.
Complete at least 25% of the course work towards the program at NWFSC.
Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued at NWFSC.
Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued, whether at NWFSC or by transfer.
Earn a minimum grade ("C") in all upper division course work.
Complete A.A. General Education requirements, including all Gordon Rule course requirements with minimum grades ("C").
Completion of two sequential credits in high school foreign language, a minimum of 6 credit hours in one foreign language at the college level or an appropriate score on an approved CLEP examination.
Complete at least 50% of the upper division program course work (not to include portfolio assessment) in residence at NWFSC.
Complete a minimum of one hundred and twenty (120) college credits applicable toward the BSN degree.

Satisfy all outstanding obligations to the college.
Apply to graduate by the published deadline.

Nursing (BSN)

Admission Program Objective Code S100 State CIP Code 1105138012
The baccalaureate nursing program at Northwest Florida State College is accredited by the Commission on Collegiate Nursing Education, One DuPont Circle, NW, Suite 530, Washington DC 20036, (202)887-6791. For more information regarding disclosure, please review pages 15-16 of the CCNE Procedures for Accreditation of Baccalaureate and Graduate Degree Nursing Programs (http://www.aacn.nche.edu/ccne-accreditation/Procedures.pdf).
The program is an R.N. to B.S.N. degree career ladder and is open to applicants who currently hold a valid Florida Registered Nursing license and have completed an accredited ADN or diploma program. The program can be completed in three to four semesters. Program content for the B.S.N. program meets those specified in Florida's A.S. to B.S. Articulation Manual. All theory courses are taught on-line from the NWF State College Niceville Campus and clinical instruction targets the specific needs of Okaloosa and Walton healthcare providers.

Associate in Arts Degree

The Associate in Arts degree is equivalent to the first two years of a bachelor's degree program and is offered for those students planning to transfer to a four-year institution or to remain at NWFSC to complete the last two years of a bachelor's degree program. The AA degree is awarded upon satisfactory completion of 60 credit hours of general education and college credit electives, attainment of the appropriate minimum grade point averages, and completion of all other applicable college graduation requirements, including the Speaking-Across-the-Curriculum and Technology-Across-the-Curriculum requirements. Although the number of credits and specific courses required for a bachelor's degree may vary across upper-division schools, the Florida community colleges and universities enjoy an articulation agreement, which guarantees certain transfer rights for students who complete the AA degree.
A.A. degree students should work closely with an Academic Advisor or faculty advisor to select the appropriate courses to meet their degree goals.

Graduation Requirements for the AA Degree

The A.A. degree curriculum requires the following.
Complete a minimum of 60 college credits per the following distribution as outlined in the AA Degree General Education Requirements:
Complete 36 credit hours of general education courses distributed appropriately across the Communications, Humanities, Social Sciences, Mathematics, Natural Sciences, and General Education Elective categories presented in the AA Degree General Education Requirements section of the catalog for specific courses
Completion of two sequential credits in high school foreign language, a minimum of 6 credit hours in one foreign language at the college level or an appropriate score on an approved CLEP examination.
Complete 24 credit hours of college credit electives. (Students should consult with a counselor or advisor to select the electives most appropriate to their intended baccalaureate program.)
Meet the General Education Requirements minimum grade and writing requirements:
Attain a grade of "C" or higher in each Gordon Rule writing course (any general education course from the Communications or Humanities categories, and those designated as Gordon Rule in the Social Science category), whether credits in such courses are earned at NWFSC or elsewhere.
Complete the Gordon Rule writing requirement (students who complete 6 credits each from the Communications and Humanities Categories, and an additional Gordon Rule Social Science course, will satisfy this requirement).
Attain a grade of "C" or higher in each Gordon Rule Mathematics course (any course from the Mathematics category that is used to meet AA general education requirements), whether credits in such courses are earned at NWFSC or elsewhere.
Complete at least 15 credits at NWFSC; (normally, an AA degree seeking student will be required to complete his/her last fifteen credits at NWFSC).
Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued at NWFSC.

Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued, whether at NWFSC or by transfer.
Complete applicable admission requirements for the program. See the Admissions section of the catalog.
Complete at least 25% of the course work towards the program at NWFSC.
Satisfy all outstanding obligations to the college.
Apply to graduate by the published deadline.

Transferring to another Four-Year College or University within the State of Florida:

Faculty members, counselors and advisors will gladly assist students in achieving a smooth transfer to other institutions in Florida. Liaison representatives from the respective public institutions in the state are eager to help. Several of the liaisons make regular visits to campus and will meet directly with students to answer questions. The names of the liaisons and dates of upcoming visits are available in the Advising Center in the Student Services Center on the Niceville Campus. In addition, Common Prerequisite Manuals for the Florida State University System are available on RaiderNet at nwfsc.edu or at www.flvc.org.
It is desirable that students transferring to a senior institution plan their program so that common prerequisites can be completed for the upper-division transfer school for their major. It is best for the student to complete the entire two-year degree program prior to transfer, as A.A. graduates who transfer to one of the institutions in the Florida State University System (SUS) enjoy certain protections under the statewide articulation agreement. These rights are presented in the "Student Bill of Rights".
NWFSC offers the necessary prerequisites for most of the State of Florida University Baccalaureate Programs. Students are encouraged to consult a current catalog from the upper-division school where they plan to transfer in addition to meeting with a college advisor or faculty member to acquire an official program plan of study for their intended major.

Special Foreign Language Requirements for Entry into Upper-Level Florida Universities:

Effective August 1, 1990, according to requirements of the Florida Board of Regents, new applicants to any of the state universities must have completed two sequential credits in high school foreign language, a minimum of 6 credit hours in one foreign language at the college level or an appropriate score on an approved CLEP examination. There are two exceptions to this requirement: 1) students who received an A.A. degree prior to September 1, 1989, or 2) students who enrolled in a program leading to an A.A. degree prior to August 1, 1989 and maintained continuous enrollment. Students who are not exempt but fail to satisfy the requirement, may be admitted to the university as part of the 5% admissions exceptions group but will be required to complete eight-ten credit hours in one foreign language as a graduation requirement, regardless of the requirements in the student's major. Students transferring into the Florida SUS without an A.A. degree or fewer than 60 transferable credits must meet this foreign language requirement before going on to the upper division. NWFSC offers the necessary coursework in French, Spanish, Chinese and American Sign Language (ASL) to meet the Florida SUS admission requirements.

Student Bill of Rights

Florida Community College Associate in Arts graduates are guaranteed the following rights under the Statewide Articulation Agreement (State Board of Education Rule 6A-10.024):
Admission to one of the state universities, except to Limited Access* programs.
Acceptance of at least 60 credit hours by the state university toward the baccalaureate degree.
Adherence to university requirements and policies based on the catalog in effect at the time the student first entered a community college, provided the student maintains continuous enrollment.
Transfer of equivalent courses under the Statewide Course Numbering System.
Acceptance by the state universities of credit earned in accelerated programs (e.g., CLEP, DANTES, AP, PEP, Dual Enrollment, Early Admission and International Baccalaureate).
No additional General Education Core requirements.
Advance knowledge of selection criteria for Limited Access* programs.
Equal opportunity with native university students to enter Limited Access* programs.
Should any guarantee be denied, students have the right of appeal. Each state university, and state college shall make available established appeal procedures through the respective articulation officers. At NWFSC, students may contact the Vice President of Academic Affairs or the Dean of Students.
* Limited Access is the designation given to programs that require additional admission requirements which are more selective than general admission requirements. These may include the following: increased total GPA and test scores; additional courses and

prerequisites; and auditions and portfolios.

AA Degree (FAMU Pre-Architecture Articulation Agreement)

Admission Program Objective Code 1043 State CIP Code 1192401010

Articulation Agreement with the Florida A&M University (FAMU) School of Architecture:

An articulation agreement between NWFSC and Florida A&M University (FAMU) School of Architecture allows students to earn an Associate in Arts (A.A.) degree that could qualify them for entrance to the upper-division of the Bachelor of Science in Architectural Studies degree program at FAMU. It is highly recommended that, in addition to the common prerequisites listed below, students should consult the current catalog from FAMU. Some SUS programs have restricted access or are considered Limited Access programs. Students are responsible for completing the specific requirements for admissions. For more information on the FAMU A.A. to B.S. articulation, contact Mr. Ray Rickman at 729-5218 or rickmanr@nwfsc.edu.

Associate in Arts Degree/Pre-Architecture FAMU Prerequisites

Please consult the Course Description section of the catalog for the required prerequisites of all courses needed to satisfy the requirements of this program. Students must meet NWFSC A.A. degree graduation requirements.

AA Degree

Admission Program Objective Code 1043 State CIP Code 1192401010
Associate in Arts students must complete sixty (60) college credits to complete the degree. Thirty-six (36) of these credits must be general education credits distributed across five subject area categories. A student must satisfy the minimum number of credits in each category. No more than one credit (1) may be selected from the list of General Education Electives (category F). The remaining twenty-four (24) elective credits should be selected in consultation with an advisor, who will assist the student in selecting college credits most advantageous to the student's educational goals.

Associate in Science Degrees, Certificates and Applied Technology Diploma Programs

Associate in Science Degree (AS)

The Associate in Science degree provides students with college credit curricula designed to prepare them for employment in various semi-professional, technical, and supervisory fields. The A.S. degree programs include a minimum of 60 college credit hours, of which at least 18 are general education courses. The A.S. degree is not generally intended for transfer: however, many students eventually pursue upper division study after completing the A.S. degree. In recognition of this practice, the general education courses required for the A.S. degree meet all applicable Gordon Rule standards and minimum grade requirements; all are transferable as general education credits to upper division institutions in the Florida State University System. Many of the technical courses in the A.S. degree are also transferable, but students should work closely with an advisor in selecting technical courses if transfer is an eventual goal.

Companion Certificate Programs

Many of the technical certificate programs offered by NWFSC provide the initial step in meeting selected course requirements for an A.S. degree in a related area. Courses from those certificates are the same as or equivalent to comparable courses in the companion degree program. Likewise, courses used in the degree program may be applied to a certificate in a related area; in many cases, completion of the technical courses in the degree program can automatically qualify the student to receive the companion certificate. Applied Technology Diploma (A.T.D.) students should work closely with an advisor to plan their studies in

order to take advantage of both curricular options.

Graduation Requirements for A.S. Degree

A.S. degree students must satisfy the following requirements:
Complete the A.S. general education courses as appropriate to the program of study, including Speaking-Across-the-Curriculum , Technology-Across-the-Curriculum , minimum Gordon Rule course and minimum grade requirements.
Complete at least fifteen credits of the technical core courses and technical elective courses specified in the degree program at NWFSC, unless there is an established articulation agreement.
Complete at least 25% of the credits at NWFSC.
Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued at NWFSC.
Maintain a cumulative grade point average of at least 2.00 for all college credit course work pursued, whether at NWFSC or by transfer.
Complete A.S. General Education requirements (all Gordon Rule courses require a minimum grade of "C").

Customizing an A.S. to Meet a Specific Career Goal

In order to provide a student with the strongest technical background feasible, some technical courses within a given degree program may be adjusted to meet the student's targeted career goal. In these special cases, course substitutions may be approved upon request of the appropriate department chair to the Dean of Career and Technical Education.

College Credit Certificates and Applied Technology Diplomas (CCC and ATD)

College credit certificates and the ATD range from eleven (11) to forty-two (42) credits in length, although most are comprised of thirty (30) credits, and require approximately one academic year to complete. Courses in these certificates include professional and technical skills, with an emphasis on practical application.
Each of the NWFSC credit certificates is paired with a companion A.S. degree program. Upon successful completion of the college credit certificate, the student may receive credit toward approximately 45% to 50% of the course requirements in the companion degree program. Conversely, students who successfully complete the technical credits within a companion degree program may qualify for graduation from the appropriate certificate program. In this manner, students may receive two graduation credentials from the college. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Career and Technical or Vocational Certificates (PSAV)

Career and technical or vocational certificates are comprised clock hour courses and are designed to prepare students for direct entry into employment. The certificates are generally less than one year in length and are designed to prepare students for employment in selected occupational skill areas. The curriculum is heavily oriented toward problem solving and skill application. In certain circumstances, the skills acquired through completion of a career and technical or vocational certificate may be articulated into comparable college credit work and applied to college credit certificate, or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

Graduation Requirements for Certificate and ATD Programs

To successfully complete a college credit or a career and technical or vocational certificate, the student must meet the following requirements.
Complete the courses and other requirements as specified in the program of study. (With advance approval, college credit courses may be substituted for equivalent vocational courses in any career and technical or vocational certificate.)
Complete at least 25% of the certificate coursework in residence at Northwest Florida State College.
Maintain a cumulative GPA of not less than 2.00 in all coursework pursued for the certificate.
Satisfy all other college graduation requirements.
In addition, students wishing to complete a career and technical or vocational certificate must demonstrate minimum skill levels in reading, communications, and mathematics, as measured by the TABE. The levels vary for each program of study.

Career Paths

All Associate in Science (AS) degrees have companion certificates (CCC) that can be used as career paths toward the AS degree. Students who complete one or more college credit certificate(s) in the career path have completed approximately 45%-50% of the course requirements in the companion A.S. degree. Students should meet with an academic advisor or a faculty advisor in the career area to explore these opportunities. A list of academic advisors and faculty advisors for each department can be found in the Advising section of the catalog.

Accounting Technology

Accounting Technology (AS)

Admission Program of Study Code 2370 State CIP Code 1552030200
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Accounting Technology Management (CCC) (State CIP Code 0552030205).

Accounting Technology Management (CCC)

Admission Program of Study Code 6370 State CIP Code 0552030205
Students who successfully complete this certificate may be eligible to receive credits towards the Accounting Technology (AS) degree (State CIP Code 1552030200).

Architectural Design and Construction Technology

Architectural Design & Construction Technology (AS)

Admission Program Objective Code 2540 State CIP Code 1604090100

Business Administration

Business Administration (AS)

Admission Program of Study Code 2380 State CIP Code 1552020102
Students who successfully complete selected courses from this program of study may be eligible to receive the Business Management (CCC) (State CIP Code 0552070101) and/or Business Specialist (Marketing) (CCC) (State CIP Code 0552020103) college credit certificates.

Business Management (CCC)

Admission Program of Study Code 6381 State CIP Code 0552070101
Students who successfully complete this certificate may be eligible to receive credits toward the Business Administration (AS) degree (CIP Code 1552020102).

Business Specialist (Marketing) (CCC)

Admission Program of Study Code 6382 State CIP Code 0552020103 Students who successfully complete this certificate may be eligible to receive credits toward the Business Administration (AS) degree (CIP Code 1552020102).

Computer Engineering Technology

Computer Engineering Technology (AS)

Admission Program of Study Code 2140 State CIP Code 1615120100
Students who successfully complete selected courses from this program of study may be eligible to receive the Microcomputer Repair/Installer (CCC) (State CIP Code 0647010406) college credit certificate.

Microcomputer Repair/Installer (CCC)

Admission Program of Study Code 6142 State CIP Code 0647010406
Students who successfully complete this certificate may be eligible to receive credits towards the Computer Engineering Technology (AS) degree (State CIP Code 161520100).

Computer Information Technology

Computer Information Technology (AS)

Admission Program Objective Code 2040 State CIP Code 1511010305

Computer Programming and Analysis

Computer Programmer (CCC)

Admission Program of Study Code 6045 State CIP Code 0511020200
Students who successfully complete this certificate may be eligible to receive credits towards the Computer Programming and Analysis (AS) degree (State CIP Code 1511020100).

Computer Programming and Analysis (AS)

Admission Program Objective Code 2045 State CIP Code 1511020100
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Computer Programmer (CCC) (State CIP Code 0511020200) and/or Computer Programming Specialist (CCC) (State CIP Code 0511020103).

Computer Programming Specialist (CCC)

Admission Program of Study Code 6046 State CIP Code 0511020103
Students who successfully complete this certificate may be eligible to receive credits towards the Computer Programming and Analysis (AS) degree (State CIP Code 1511020100).

Criminal Justice Technology

Auxiliary Law Enforcement Officer Basic (PSAV)

Admission Program of Study Code 5094 State CIP Code 0743010701
Entry into Criminal Justice Certificate Programs requires meeting the standards as established by the Criminal Justice Standards and Training Commission and the Florida Department of Law Enforcement for employment. A copy of these requirements will be furnished by the Public Safety Division at NWFSC.

Correctional Officer (Basic) (PSAV)

Admission Program of Study Code 5091 State CIP Code 0743010200
Entry into Criminal Justice Certificate Programs requires meeting the standards as established by the Criminal Justice Standards and Training Commission and the Florida Department of Law Enforcement for employment. A copy of these requirements will be furnished by the Public Safety Division at NWFSC.

Criminal Justice Technology (AS)

Admission Program of Study Code 2090 State CIP Code 1743010300

Law Enforcement Officer (Basic) (PSAV)

Admission Program of Study Code 5092 State CIP Code 0743010700
Entry into Criminal Justice Certificate Programs requires meeting the standards as established by the Criminal Justice Standards and Training Commission and the Florida Department of Law Enforcement for employment. A copy of these requirements will be furnished by the Public Safety Division at NWFSC.

Customer Relationship Management

Customer Relationship Management (AS)

Admission Program Objective Code 2570 State CIP Code 1252020700
Students who successfully complete selected courses from this program of study may be eligible to receive the applied technology diploma in Customer Service Technology (ATD) (State CIP Code 0252020701).

Customer Service Technology (ATD)

Admission Program of Study Code B575 State CIP Code 0252020701
Students who successfully complete this diploma may be eligible to receive credits towards the Customer Relationship Management (AS) degree (State CIP Code 1252020700).

Database Technology

Database Technology (AS)

Admission Program Objective Code 2155 State CIP Code 1511010306

Dental Assisting

Dental Assisting (PSAV)

Admission Program of Study Code 5000 State CIP Code 0351060107
This program is a Limited Admission program subject to additional program policies and requirements stipulated in the “Dental Assisting Student Handbook.” The admission criteria and process, as well as some course numbers and credits are subject to change; students should contact the Dental Assisting program office for the most current information.
The program in dental assisting is accredited by the Commission on Dental Accreditation and has been granted accreditation status of approval without reporting requirements. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611-2678. The Commission’s web address is: http://www.ada.org/100.aspx.
Students who successfully complete this program and pass the Dental Assisting National Board (DANB) Certificate (CDA) may apply 21 credits towards the Technical Elective requirements for the Health Services Management (AS) degree (State CIP Code 135070100).

Digital Media/Multimedia Technology

Digital Media/Multimedia Authoring (CCC)

Admission Program of Study Code 6580 State CIP Code 0609070209
Students who successfully complete this diploma may be eligible to receive credits towards the Digital Media/Multimedia Technology (AS) degree (State CIP Code 1611080102).

Digital Media/Multimedia Presentation (CCC)

Admission Program of Study Code 6581 State CIP Code 0609070219
Students who successfully complete this diploma may be eligible to receive credits towards the Digital Media/Multimedia Technology (AS) degree (State CIP Code 1611080102).

Digital Media/Multimedia Technology (AS)

Admission Program Objective Code 2580 State CIP Code 1611080102
The Digital Media/Multimedia programs are intended for students interested in working in commercial art fields that include electronic publishing, digital video production, and website development.
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificates in Digital Media/Multimedia Authoring (CCC) (State CIP Code 0609070209) and/or Digital Media/Multimedia Presentation (CCC) (State CIP Code 0609070209).
Students are encouraged, but not required, to contact Digital Media faculty at 729-6019 for detailed advising to plan a program of study before enrolling in courses.

Drafting Design Technology

AutoCAD Foundations (CCC)

Admission Program of Study Code 6052 State CIP Code 0615130204
Students who successfully complete this certificate may be eligible to receive credits towards the Drafting and Design Technology (AS) degree (State CIP Code 1615130102).

Drafting and Design Technology (AS)

Admission Program Objective Code 2051 State CIP Code 1615130102
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificates in AutoCAD Foundations (CCC) (State CIP Code 0615130204) and/or Drafting Design (CCC) (State CIP Code 0615130101.

Drafting Design (CCC)

Admission Program of Study Code 6051 State CIP Code 0615130101
Students who successfully complete this certificate may be eligible to receive credits towards the Drafting and Design Technology (AS) degree (State CIP Code 1615130102).

Early Childhood Education

Child Care Center Management Specialization (CCC)

Admission Program of Study Code 6021 State CIP Code 0419070906
Students who successfully complete this certificate may be eligible to receive credits towards the Early Childhood Education (AS) degree (State CIP Code 1413121003).

Child Development Early Intervention (CCC)

Admission Program of Study Code 6020 State CIP Code 0419070904
Students who successfully complete this certificate may be eligible to receive credits towards the Early Childhood Education (AS) degree (State CIP Code 1413121003).

Early Childhood Education (AS)

Admission Program Objective Code 2020 State CIP Code 1413121003
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Child Development Early Intervention (CCC) (State CIP Code 0419070904), Child Care Center Management Specialization (CCC) (State CIP Code 0419070906), Infant/Toddler Specialization (CCC) (State CIP Code 0419070907), and/or Preschool Specialization (CCC) (State CIP Code 0419070908).

Infant/Toddler Specialization (CCC)

Admission Program of Study Code 6022 State CIP Code 0419070907
Students who successfully complete this certificate may be eligible to receive credits towards the Early Childhood Education (AS) degree (State CIP Code 1413121003).

Preschool Specialization (CCC)

Admission Program of Study Code 6024 State CIP Code 0419070908
Students who successfully complete this certificate may be eligible to receive credits towards the Early Childhood Education (AS) degree (State CIP Code 1413121003).

Emergency Administration and Management

Emergency Administration & Management (AS)

Admission Program Objective Code 2093 State CIP Code 1743030200
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificates in Emergency Administrator & Manager (CCC) (State CIP Code 0743030201),Firefighter (Basic) (PSAV) (State CIP Code 1743030200) and/or Homeland Security Emergency Manager (CCC) (State CIP Code 0743030202).

Emergency Administrator & Manager (CCC)

Admission Program of Study Code 6093 State CIP Code 0743030201
Students who successfully complete this certificate may be eligible to receive credits towards the Emergency Administration & Management (AS) (State CIP Code 1743030200).

Firefighter (Basic) (PSAV)

Admission Program of Study Code 5095 State CIP Code 0743020300
Entry into the Firefighting Certificate Program requires meeting the standards established by the Florida Division of State Fire Marshal, Bureau of Fire Standards and Training. A copy of these requirements is available through the Public Safety Division of NWFSC.
Students who successfully complete this certificate may be eligible to receive credits towards the Emergency Administration & Management (AS) degree (State CIP Code 1743030200).

Homeland Security Emergency Manager (CCC)

Admission Program of Study Code 6094 State CIP Code 0743030202
Students who successfully complete this certificate may be eligible to receive credits towards the Emergency Administration & Management (AS) degree (State CIP Code 1743030200).

Emergency Medical Services

Emergency Medical Services (AS)

Admission Program Objective Code 2095 State CIP Code 1351090402
This curriculum forms the last stage of a career ladder program progression from Emergency Medical Technician (Basic) (CCC) (State CIP Code 0351090400) to Paramedic (CCC) (State CIP Code 0351090405) to Emergency Medical Services (AS) degree. Students interested in pursuing this program must have a current and active Florida Bureau of Emergency Medical Services EMT/Paramedic licensure. Contact the Emergency Services/Paramedic program at (850) 729-4924 for more information.

Emergency Medical Technician (Basic) (CCC)

Admission Program of Study Code 6096A State CIP Code 0351090400
Admission will be through a Limited Access application process. Graduates of this program will be eligible to apply for the examination to become a Florida certified Emergency Medical Technician and a National Registry Emergency Medical Technician Basic. Students interested in pursuing this program should contact the Emergency Medical Services Office at (850) 729-4924. Students who successfully complete this certificate may be eligible to receive credits towards the Emergency Medical Services (AS) degree (State CIP Code 1351090402).

Paramedic (CCC)

Admission Program Objective Code 6095A State CIP Code 0351090405
Admission will be through a Limited Access application process. Graduates will be eligible to sit for the Paramedic certification exam. The curriculum forms the core of the Emergency Medical Services (AS) degree (State CIP Code 1351090402). Students may "add on" general education credits and some college credit electives to the Paramedic certificate and earn the A.S. degree. Students interested in pursuing this program should contact the Emergency Medical Services Office at (850) 729-4924.

Engineering Technology

Applied Welding Technologies (PSAV)

Admission Program of Study Code 5510 State CIP Code 0648050802
Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Mechanical Design & Fabrication Specialization Option (AS) degree (State CIP Code 1615000001).

CNC Machinist/Fabricator (CCC)

Admission Program of Study Code 6010 State CIP Code 0648051002
Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Mechanical Design & Fabrication Specialization Option (AS) degree (State CIP Code 1615000001).

Computer-Aided Design and Drafting (CCC)

Admission Program of Study Code 6011 State CIP Code 0615130304
Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Digital Design & Modeling Specialization Option (AS) degree (State CIP Code 1615000001).

Digital Manufacturing Specialist (CCC)

Admission Program of Study Code 6013 State CIP Code 0615000009
Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Digital Manufacturing Specialization (DM) Option (AS) degree (State CIP Code 1615000001).

Engineering Technology Support Specialist (CCC)

Admission Program of Study Code 6012 State CIP Code 0615000007
Students who successfully complete this certificate may be eligible to receive credits towards one of the Engineering Technology

(AS) degree (State CIP Code 1615000001) specializations: Engineering Technology - Advanced Technology Specialization (AT) Option (AS) , Engineering Technology - Digital Design & Modeling Specialization Option (AS), Engineering Technology - Digital Manufacturing Specialization (DM) Option (AS) or Engineering Technology - Mechanical Design & Fabrication Specialization Option (AS) .

Engineering Technology - Advanced Technology Specialization (AT) Option (AS)

Admission Program Objective Code 2010C State CIP Code 1615000001
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the four specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, and Digital Manufacturing with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.
The 18 credit hour core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification.
Students who successfully complete selected courses from this program of study may be eligible to receive the Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007) certificate.

Engineering Technology - Digital Design & Modeling Specialization Option (AS)

Admission Program Objective Code 2010B State CIP Code 1615000001
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the four specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, and Digital Manufacturing with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.
The 18 credit hour core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification.
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Computer-Aided Design and Drafting (CCC) (State CIP Code 0615000004), Rapid Prototyping Specialist (CCC) (State CIP Code 0615000012) and/or Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007).

Engineering Technology - Digital Manufacturing Specialization (DM) Option (AS)

Admission Program Objective Code 2010D State CIP Code 1615000001
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the four specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, and Digital Manufacturing with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and

manipulative skills to support engineering design, processes, production, testing, and product quality.
The 18 credit hour core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification.
Students who successfully complete selected courses from this program of study may be eligible to receive the Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007), Digital Manufacturing Specialist (CCC) (State CIP Code 0615000009), and Rapid Prototyping Specialist (CCC) (State CIP code 0615000012) certificates.

Engineering Technology - Mechanical Design & Fabrication Specialization Option (AS)

Admission Program Objective Code 2010A State CIP Code 1615000001
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the four specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, and Digital Manufacturing with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.
The 18 credit hour core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification.
Students who successfully complete selected courses from this program of study may be eligible to receive the CNC Machinist/Fabricator (CCC) (State CIP Code 0615080502), the Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007) and/or the Applied Welding Technologies (PSAV) (State CIP Code 0648050802) certificates.

Rapid Prototyping Specialist (CCC)

Admission Program of Study Code 6014 State CIP Code 0615000012
Students who successfully complete this certificate may be eligible to receive credits towards the Engineering Technology - Digital Manufacturing Specialization (DM) Option (AS) or the Engineering Technology - Digital Design & Modeling Specialization Option (AS) Option (Both State CIP Code 1615000001).

Engineering Technology - Electronics Specialization Option (AS)

Admission Program Objective Code 2010E State CIP Code 1615000001
The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction consisting of the five specializations: Mechanical Design and Fabrication, Digital Design and Modeling, Advanced Technology, Digital Manufacturing and Electronics with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes communication skills, technical competency, safe and efficient work practices and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality.
The 18 credit hours core has been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Production Technician Certification. Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Engineering Technology Support Specialist (CCC) (State CIP Code 0615000007).

Graphics Technology

Graphic Design Production (CCC)

Admission Program of Study Code 6440 State CIP Code 0611080303
Students who successfully complete this certificate may be eligible to receive credits towards the Graphics Technology, Graphic Design Option (AS) Degree (State CIP Code 1611080300).

Graphic Design Support (CCC)

Admission Program of Study Code 6441 State CIP Code 0611080302
Students who successfully complete this certificate may be eligible to receive credits towards the Graphics Technology, Graphic Design Option (AS) Degree (State CIP Code 1611080300).

Graphics Technology, Graphic Design Option (AS)

Admission Program Objective Code 2440A State CIP Code 1611080300 The Graphics Technology (Graphic Design Technology) A.S. degree is intended for students interested in careers in Graphic Design and Commercial Art where creativity and visual communication are core competencies. Students are encouraged, but not required, to contact Graphic Arts faculty at 729-6019 for detailed advising to plan a program of study before enrolling in courses.
Students who successfully complete selected courses from this program of study may be eligible to receive the Graphic Design Production (CCC) (State CIP Code 0650040204), and/or Graphic Design Support (CCC) (State CIP Code 0650040202).

Graphics Technology, Visual Artist Option (AS)

Admission Program Objective Code 2440C State CIP Code 1611080300 The Graphics Technology (Graphic Design Technology) A.S. degree is intended for students interested in careers in Graphic Design and Commercial Art where creativity and visual communication are core competencies. Students are encouraged but not required to contact Graphic Arts faculty for detailed advising before enrolling in courses to plan a program of study at 729-6019.

Health Services Management

Health Services Management (AS)

Admission Program Objective Code 2055 State CIP Code 1351070100

Industrial Management Technology

Industrial Management Technology (AS)

Admission Program Objective Code 2450 State CIP Code 1652020501

Internet Services Technology

Information Technology Administration (CCC)

Admission Program of Study Code 6166 State CIP Code 0511010307
Students who successfully complete this certificate may be eligible to receive credits towards the Internet Services Technology (AS) degree (State CIP Code1511080102).

Internet Services Technology (AS)

Admission Program Objective Code 2166 State CIP Code 1511080102
Students who successfully complete selected courses from this program of study may be eligible to receive the Information Technology Administration (CCC) (State CIP Code 0511010307) and/or Web Development Specialist (CCC) (State CIP Code 1511080102) certificates.

Web Development Specialist (CCC)

Admission Program of Study Code 6167 State CIP Code 0511080103
Students who successfully complete this certificate may be eligible to receive credits towards the Internet Services Technology (AS) degree (State CIP code 1511080102).

IT Security

Database and E-Commerce Security (CCC)

Admission Program Objective Code 6165 State CIP Code 0511100311
Students who successfully complete this certificate may be eligible to receive credits towards the IT Security (AS) degree (State CIP Code 1511100306).

IT Security (AS)

Admission Program Objective Code 2165 State CIP Code 1511100306
Students who successfully complete selected courses from this program of study may be eligible to receive the Database and E-Commerce Security (CCC) certificate (State CIP Code 0511100311).

Music Production Technology

Audio Technology (Recording Arts) (CCC)

Admission Program of Study Code 6560 State CIP Code 0650060209
Students who successfully complete this program may apply these credits to the Music Production Technology (AS) degree (State CIP Code 1650091300).

Music Production Technology (AS)

Admission Program Objective Code 2560 State CIP Code 1650091300
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Audio Technology (Recording Arts) (CCC) (State CIP Code 0650060209).

Network Systems Technology

Advanced Network Infrastructure (CCC)

Admission Program of Study Code 6144 State CIP Code 0511100115
This certificate program is prepares students for MCSE/MCSA industry certifications. Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Digital Forensics (CCC)

Admission Program of Study Code 6147 State CIP Code 0511100119
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

IP Communications (CCC)

Admission Program of Study Code 6148 State CIP Code 0511100120
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Network Enterprise Administrator (CCC)

Admission Program of Study Code 6149 State CIP Code 0511100113
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Network Infrastructure (CCC)

Admission Program of Study Code 6154 State CIP Code 0511100114
This certificate program is for CISCO certifications. Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Network Security (CCC)

Admission Program of Study Code 6155 State CIP Code 0511100118
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Network Server Administration (CCC)

Admission Program of Study Code 6156 State CIP Code 0511100112
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Network Support Technician (CCC)

Admission Program of Study Code 6157 State CIP Code 0511100121
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Network Systems Technology (AS)

Admission Program Objective Code 2146 State CIP Code 1511100111
Students may apply selected credits from this program to the requirements of the college credit Advanced Network Infrastructure (CCC) (State CIP Code 0511100115), Digital Forensics (CCC) (State CIP Code 0511100119), IP Communications (CCC) (State CIP Code 0511100120), Network Enterprise Administrator (CCC) (State CIP Code 0511100113), Network Infrastructure (CCC) (State CIP Code 0511100114), Network Security (CCC) (State CIP Code 0511100118), Network Server Administration (CCC) (State CIP Code 0511100112), Network Support Technician (CCC) (State CIP Code 0511100121), and/or UNIX/Linux System Administrator (CCC) (State CIP Code 0511100122).

UNIX/Linux System Administrator (CCC)

Admission Program of Study Code 6143 State CIP Code 0511100122
Students who successfully complete this certificate may be eligible to receive credits towards the Network Systems Technology (AS) degree (State CIP Code 1511100111).

Nursing

Nursing R.N. (AS)

Admission Program Objective Code 2000 State CIP Code 1351380100
This program is a Limited Admission program subject to additional program policies and licensure requirements stipulated in the “Nursing Program Student Handbook.” Policies are strictly enforced and students should work with the Nursing Program staff rather than self-advise. The admission criteria and process are subject to change; students should contact the Associate Degree Nursing Program office for the most current information.

Office Administration

Medical Coder/Biller (CCC)

Admission Program of Study Code 6103 State CIP Code 0351070707
Students who successfully complete this college credit certificate may be eligible to receive credits towards the Office Administration (AS) (AS) Degree (State CIP Code 1552020400).

Office Management (CCC)

Admission Program of Study Code 6100 State CIP Code 0552020401

Students who successfully complete this certificate may be eligible to receive credits towards the Office Administration (AS) degree (State CIP Code 1552020400).

Medical Office Management (CCC)

Admission Program of Study Code 6101 State CIP Code 0551071605
Students who successfully complete this certificate may be eligible to receive credits towards the Office Administration (AS) (State CIP Code 1552020400).

Office Specialist (CCC)

Admission Program of Study Code 6102 State CIP Code 0552040704
Students who successfully complete this certificate may be eligible to receive credits towards the Office Administration (AS) degree (State CIP Code 1552020400).

Office Administration (AS)

Admission Program Objective Code 2100 State CIP Code 1552020400
Students who successfully complete selected technical courses in this program may also be eligible to receive the college credit certificates in Office Specialist (CCC) (State CIP Code 0552040704), Medical Office Management (CCC) (State CIP Code 0551071605), Office Management (CCC) (State CIP Code 05520200401) and/or Medical Coder/Biller (CCC) (CCC) (state CIP Code 0351070707).

Paralegal Studies

Paralegal Studies (AS)

Admission Program Objective Code 2105 State CIP Code 1722030200

Radiography

Radiography (AS)

Admission Program Objective Code 2050 State CIP Code 1351090700
This program is a Limited Access program subject to additional policies and licensure requirements. Students attend classes at the Niceville Campus, and are assigned to clinical rotations at various healthcare facilities in the district. Graduates are eligible to sit for the ARRT certification exam. For additional information contact the Health Technology Department at (850) 729-6444.

Sports, Fitness and Recreation Management

Sports, Fitness and Recreation Management (AS)

Admission Program Objective Code 2480 State CIP Code 1731050700

Theatre and Entertainment Technology

Stage Technology (Theater & Entertainment) (CCC)

Admission Program of Study Code 6585 State CIP Code 0650050201
Students who successfully complete this certificate may be eligible to receive credits towards one of the following Theatre and Entertainment A.S. degree options:
Theater and Entertainment Technology - Acting Specialization Option (AS) (State CIP Code 1650050202)
Theater and Entertainment Technology - Costuming Specialization Option (AS) (State CIP Code 0650050201)
Theater and Entertainment Technology - Technical Theater Specialization Option (AS) (State CIP Code 0650050201)

Theater and Entertainment Technology - Acting Specialization Option (AS)

Admission Program Objective Code 2585A State CIP Code 1650050202
Students who successfully complete selected courses from this program of study may be eligible to receive the college credit certificate in Stage Technology (State CIP Code 0650050201).

Theater and Entertainment Technology - Costuming Specialization Option (AS)

Admission Program Objective Code 2585E State CIP Code 1650050202
Students who successfully complete selected courses from this program of study may be eligible to receive the Stage Technology (Theater & Entertainment) (CCC) certificate (State CIP Code 0650050201).

Theater and Entertainment Technology - Dance Specialization Option (AS)

Admission Program Objective Code 2585B State CIP Code 1650050202

Theater and Entertainment Technology - Music Theater Specialization Option (AS)

Admission Program Objective Code 2585C State CIP Code 1650050202

Theater and Entertainment Technology - Technical Theater Specialization Option (AS)

Admission Program Objective Code 2585D State CIP Code 1650050202
Students who successfully complete selected courses from this program of study may be eligible to receive the Stage Technology (Theater & Entertainment) (CCC) certificate (State CIP Code 0650050201).

Welding - See Applied Welding Technologies

Welding - See Applied Welding Technologies

Achievement Award

A student who has successfully completed a given set of skill courses within a particular degree or certificate program may be recognized for his/her mastery of these competencies with a NWFSC Achievement Award. Although the award does not indicate completion of an official, approved program of study, it does verify the student's proficiency with a specified group of skills. Achievement awards are not noted on the student's transcript or permanent record; however, the student will receive an NWFSC Achievement Certificate from the Office of Career and Technical Education that may be presented to an employer or agency as a record of this educational milestone. Students are encouraged to keep a copy of these awards as the college cannot guarantee that these can be duplicated.

Course Divisions

Upper Division College Credit Courses

ACG 3083 - Accounting: Concepts and Practice

This course explores the preparation and use of accounting information. Topics include mathematical procedures related to business decisions; terms and processes associated with the accounting cycle; financial statements for the sole-proprietorship, partnership and corporation; and foundations of managerial accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing and GEB 3031 or permission. ACG 2001 is strongly recommended. (With advance approval, students who have completed both ACG 2001 and ACG 2011 may substitute an upper division elective for this course.)

BUL 3320 - Law and Business

An introduction to the legal setting in which modern business operates; emphasis is on public and regulatory law, basic contract law, the processes of administrative, statutory and common law and interstate commerce issues; includes an overview of the UCC and intellectual property.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, Spring, Summer) Prerequisite(s): upper division standing.

BUL 4333 - Contract Formation and Administration

Students will be exposed to the differences in the public and private sector contracting environments. Emphasis will be placed on the fundamentals of contract formation including sealed bidding, negotiations, and best value methods. Students will learn the fundamentals of contract administration including inspection and acceptance, quality control, contract changes, and disputes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s): upper division standing and BUL 3320 or BUL 2241 and BUL 2242 .

BUL 4931 - Acquisition Law Seminar

This course addresses contract law as applicable to formation and administration of contracts with private and governmental agencies, with emphasis on the federal government. The following topics are also included: concepts of responsiveness and responsibility, bidding procedures, mistakes, negotiation procedures, changes, claims and dispute resolution. Students will explore the typical contracting problems that can lead to litigation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and BUL 4333 .

EDE 4223 - Integrating Art, Music, and Physical Education

This integrative course provides students with critical understanding of art, music, and physical education. Emphasis is placed on the effective integrative lesson planning and modeling techniques to art, music, and physical education in elementary schools. This course requires a minimum grade of "C".

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4226C - Integrated Language Arts, Social Science and Literature

This course is designed to prepare candidates to teach language arts and social science in elementary classrooms. Teacher candidates will develop units of study that integrate literature, language arts, with social science content. Emphasis is on constructivist principles and methodology. Teacher candidates will plan and deliver standards-based language arts and social science lessons designed to meet the needs of diverse learners including English language learners (ELLs) and students with exceptionalities. This course requires 18 hours of field experience in a K-6 classroom setting. Current background check (fingerprinting) acceptable to the district in which the field experience will take place is required for this course. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDE 4930C - Seminar in Elementary Education

This course is designed to prepare the pre-service teacher to transition into the workplace. Includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3214 - Human Development and Learning

This course is designed to cover the principles of learning and student development with applications to learning/teaching situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is to be emphasized. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3430 - Measurement, Evaluation, and Assessment in Education

This course studies the basic principles and methods of measurement, evaluation, and methods of test construction. Students will interpret standardized test scores, construct teacher-made tests and other classroom assessments, and evaluate portfolio and performance assessment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this

content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EDF 3910A - Projects in Teacher Education

Directed study and individual projects designed to meet the needs of Teacher Education students completing an artifact required in the B.S.E. program. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
upper division standing

EDF 3910P - Projects in Teacher Education – Field Placement

Directed study and individual projects designed to meet the needs of Teacher Education students completing field experience in the B.S.E. program. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
upper division standing

EDF 3911 - Independent Research in Teacher Education

Directed study and individual projects designed to meet the needs of students completing field experience and artifact required in the B.S.E. program. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing

EDG 3343 - Instructional Strategies

This course provides an overview of instructional models and strategies. Emphasis is placed on principles of state standards, instructional methods, and lesson planning and instruction. Students will develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C

EDG 3410 - Classroom Management, School Safety, Law, and Ethics

Practicing teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. This course is restricted to practicing teachers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Online Only Prerequisite(s):
upper division standing.

EDG 3410C - Classroom Management, School Safety, Law, and Ethics

Pre-service teachers are provided strategies for managing a safe, stimulating learning environment for all learners. This course

emphasizes school safety, law, and ethics as they apply to schools, districts, and the learning environment. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

EDG 4940 - Internship

Supervised teaching in a public or private school. Student teaching assignments will be made by the department of teacher education field placement coordinator. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 9 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing with permission of department chair.

EEC 3213 - Teaching the Language Arts In Early Childhood Education

The focus of this course will be on the development of language and literacy in children ages birth through age four. Emphasis will be placed on understanding the process of emergent literacy including vocabulary and language, phonological awareness, print knowledge and comprehension; and on designing a developmentally appropriate language arts program in relation to the early learning and developmental standards. This course will require observing and participating in an early childhood classroom.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

EEC 3227 - Art, Music, and Movement

The focus of this course will be on developing an understanding of the creative developmental process in the life of children from birth through four years old. Emphasis will be placed on the teacher's role in developing opportunities and materials for young children to express themselves creatively through music, drama, dance and two- and three-dimensional art and on providing varied opportunities for young children to gain an appreciation of art, music, drama, and dance in ways that reflect cultural diversity in relation to the early learning and developmental standards. This course will require observing and participating in an early childhood classroom.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 3320 - Principles and Methods for Teaching Early Childhood Social Studies

This course is designed to prepare students to teach social studies In the early childhood classroom. Emphasis is on implementing the project approach to investigate components of social studies to include: individual development and identity; people, places, and environments, technology and our world; and civic ideals and practices. The student will increase and apply knowledge and skills in the Florida Early Learning and Developmental Standards relevant to this content area.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 3511 - Curriculum for Infants and Toddlers

The focus of this course will be on the design, implementation and evaluation of programming and curriculum that promotes growth and development of young children birth to three years old and aligns with the early learning and developmental standards. Study of typical and atypical development will be included. Emphasis will be on working effectively with families of infants and toddlers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 3524 - Professionalism/Program Development

Focus of this course will be on management and leadership in early childhood education programs. Topics will include mentoring adults, professional development, staff assessment, program evaluation, and child advocacy. Career options in the field of early childhood education will be explored. This course will require observing and participating in a program or agency related to early

childhood education.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

EEC 4404 - Families and Diversity

This course will focus on building positive relationships with families through communication and involvement. Focus will include developing an awareness of diversity and multicultural considerations in working with families of young children. The course will explore the role of the family and the influence of the community on the development of young children in a diverse society; and will prepare the student to work effectively with families and communities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 4421 - Teaching Math and Science in Early Childhood Education

The focus of this course will be on developing an understanding of how concepts, skills and attitudes in early childhood mathematics and science are developed in young children ages birth through age four. Math topics will include number sense and operations, patterns, geometry, and measurement. Science topics will include scientific inquiry, physical science, life science and earth science. Emphasis will be on the alignment of the Early Learning and Developmental Standards with a developmentally appropriate approach to teaching math and science in the early childhood classroom. This course will require observing and participating in an early childhood classroom.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

EEC 4613 - Systematic Observation and Assessment

The focus of this course will be on understanding the purpose of child assessment, implementing developmentally appropriate practices in formal and informal child assessment, and using assessment results to support learning, to identify special needs, to evaluate programs, and to respond to program accountability requirements. A field experience is required to practice various methods of assessment in an early childhood setting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEX 3070 - Methods of Inclusion and Collaboration

This course examines the basic identification techniques and strategies used to promote academic and social integration and interaction of "mainstreamed" exceptional students. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

EEX 3604 - Classroom Management in Early Childhood Education

The focus of this course is on implementing effective classroom management practices including establishing an appropriate physical environment, setting up appropriate classroom routines and rules and creating a positive classroom community. Emphasis will be on strategies for guiding children's behavior, teaching social problem-solving skills and responding appropriately to challenging behaviors.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEX 4201 - Young Children with Special Needs

The focus of this course will be on working with young children birth through age four in an inclusive early childhood classroom. Emphasis will be on identifying typical and atypical development, creating an inclusive early childhood learning environment, understanding special education law, developing an awareness of resources for inclusive practice to meet the needs of young

children and their families.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EME 3410C - Integrating Technology in the Classroom

In this course students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology and learn strategies to select software and deal with legal and ethical issues when planning for technology integration. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3343 and EDG 3410C

EVR 3949 - Extended Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Minimum Grade of "B" in any college-level science course and permission of instructor.

FIN 4402 - Financial and Economic Management

This course addresses the application of contemporary theory and practice in business resource allocation. Topics include: capital budgeting, equity and capital financing, capital management, analysis of financial statements, pricing theory, management of working capital and other topics relevant to the acquisition, financing and management of business assets and business decision making. Both the economic and financial perspectives will be presented.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing and ACG 3083 ; or upper division standing and ACG 2001 and ACG 2011 ; or upper division standing and ECO 2013 or ECO 2023 . ECO 2013 or ECO 2023 is strongly recommended. (With advance approval, students who have completed both ECO 2013 and ECO 2023 may substitute an upper division elective for this course.)

GEB 3031 - Contemporary Business Practices

This course includes an orientation to and examination of opportunities and challenges facing managers in contemporary business organizations. Introduces the competencies of teamwork, communication, creative thinking, adapting to change, decision making and customer service through application to issues and problems across the general business spectrum.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3213 - Business and Administrative Communication

A comprehensive course in effective and efficient communications in the business world; includes preparation of reports, proposals and presentations, technical writing skills, composition of standard business documents including persuasive messages, sales letters, customer service correspondence, instructional memoranda, and policy and procedure development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and ENC 1101 or departmental permission.

GEB 3434 - Ethics for Business Leaders

This course uses a case study approach to focus on the significant ethical and legal issues facing today's business leaders. The theoretical and philosophical background will be presented along with real-life examples of ethics in the workplace. Cases and readings will be used to develop both analysis and application skills in the following areas: corporate and personal decision making, organizational culture and reputation, social responsibility and social reporting, customer relations, employee relations, financial reporting, technology, privacy/confidentiality and communications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; prior coursework in management, human relations or general business is desirable.

GEB 3444 - Business Trends and Issues

This course builds on the traditional themes and concepts of the general business area through specialized readings on trends and issues facing today's business and industry leaders. Students will read opinion pieces by noted in-field experts, as well as conduct basic research on contemporary issues such as information and workplace security, diversity in the workplace, outsourcing functions/services and global competition, with an eye to improving business operations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3930 - Business Project and Acquisitions Terms and Concepts

Students will apply specialized terminology of project and acquisitions management in various communication venues including short written documents and summary analyses. Emphasis will be placed upon the latest terms, abbreviations and jargon applicable to the field. Students will research selected terms and concepts in various contemporary periodicals and publications.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

GEB 3933 - Business Research

This seminar-style course, offered in group or individual format, provides an introduction to various references, databases, periodicals, journals and other publications essential to the research of contemporary business issues; also included are methods of accessing resources via the Internet, designing search strategies, citing Internet resources and evaluating research materials.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing

GEB 4454 - Business in a High Technology Environment

Presents the special challenges and opportunities of managing a high technology firm or a traditional entity operating in the high technology environment; addresses software/information security, recruiting technical personnel, outsourcing, equipment security, updating equipment, telecommuting and similar issues.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 .

GEB 4930 - Special Topics: Project Management

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and permission of the instructor.

GEB 4931 - Special Topics: Acquisitions

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and permission of the instructor.

GEB 4932 - Special Topics: Quality Improvement

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and permission of the instructor.

GEB 4933 - Special Topics: Management

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and permission of the instructor.

GEB 4934 - Special Topics: Business Administration

An individual or group course designed to provide students with the opportunity to pursue a special topic(s) from the area of business administration in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and permission of the instructor.

GEB 4941 - Internship: Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and permission of the instructor.

HSA 3110 - Health Care Organization and Management

This course focuses on the structure and management of health care organizations, and the fundamental issues facing the U.S. health care system. Key topics include health status, the organization of health services, manpower, public health, financing, facilities, utilization, quality, regulation, and national health policy.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

HSA 3111 - Introduction to Health Care Management

This course studies the administration, organization and delivery of health care in the United States. Topics to be examined include

health care leadership, management, strategy, performance improvement, information technology, insurance, financial and human resources management, as well as ethical and legal concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

HSA 3113 - Contemporary Issues in Health Care

This course is designed to introduce students to a range of issues related to health and health care in the United States. Course content will give students the opportunity to explore differing perspectives as they develop a deeper understanding of the issues and enhance their research and communication skills. The course will enable students to analyze and evaluate evidence regarding controversial issues. Students will develop and practice skills in formulating and writing well-informed, well-articulated arguments and reflections.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSA 4191 - Health Information Systems

This course focuses on the theories, concepts and principles of health information systems and development of critical thinking skills for use in practice/working in health care informatics. Current trends and issues in using, designing, and managing heath care information systems will be examined. Students, applying evidence-based knowledge, will analyze the design and implementation of health care information systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

HSA 4922 - Capstone: Health Care Management

This course integrates the information, skills, and abilities provided throughout the Health Administration Program in a capstone project. Students complete a project that demonstrates excellence by applying the knowledge gained from the core courses and materials studied throughout the program. Successful completion of the course requires demonstration of the achievement of program objectives and learning outcomes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

HUS 4950 - Capstone: Human Resources Management

This capstone will build upon and integrate the primary human resource management skills introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge in the field of human resources.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining program core and emphasis courses.

ISC 4145 - Environmental Systems

Environmental Systems will expose students to a broad overview of the structure and processes occurring on Earth. Students will gain a broad understanding of the interactions between the atmosphere, biosphere, lithosphere, and hydrosphere. Course topics will be related to current environmental issues and our local ecosystems. This course is focused on Earth System Science content with development of methods specific to teaching middle school science as a secondary objective.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
(1) any two-course laboratory sequence in the natural sciences (i.e., Principles of Biology I & II, Principles of Geology I & II, College Chemistry I & II, Physics I & II, College Physics I & II, Anatomy & Physiology I & II); (2) any GLY course; (3) and either CHM1020 (Chemical Science) or PHY1020 (Physical Science).

ISM 3220 - Network Technologies for Information Professionals

This course is designed to give the student an understanding of the various networking technologies and their practical application in the management of a business. The course also covers the technical issues involved in designing and implementing an efficient network for voice, data, and information networks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing/admission to any B.A.S. program and at least two information technology or computer science courses at a college or university level.

ISM 3232 - Software Essentials

This course covers a broad range of software topics as they apply to software management and systems analysis and design. Topics include, but are not limited to programming, the systems development life cycle (SDLC), systems management, interface design and Internet technology.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing/admission to any B.A.S. program.

ISM 3323 - Applications in Information Security

This course helps develop the important security concepts relative to software application development and access control that provide the knowledge and skills necessary for the successful management of information security in an organization. Students will understand the environment where software is designed and developed as well as the critical role software plays in providing security to an organization's information systems. The course focuses on software development concepts that relate to security, and how access control methodologies fit into the entire enterprise architecture.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing/admission to any B.A.S. program.

ISM 4011 - Information Systems Management

This course provides a study of the language, concepts, structures, and processes involved in management of information systems, including the fundamentals of computer-based technology and the use of business-based software for support of managerial decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

ISM 4480 - Electronic Commerce Systems and Strategies

This course is designed to familiarize the student with the management approach to defining and implementing e-commerce (EC) systems. The course addresses the digital economy, EC strategy and marketing, EC models (Business to Business, Business to Consumer, etc.) as well as EC architectures. The course will cover management and regulatory issues in EC such as internationalization, electronic payment methods, Internet fraud, mobile e-commerce, and current implementation technologies. Architectures and inter-dependence (i.e. integration) of systems will be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing/admission to any B.A.S. program.

ISM 4930 - Special Topics - Technology Management

This is an individual or group course designed to provide students with the opportunity to pursue a special topic(s) in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Upper division standing and permission of instructor.

Note:
This course may be taken up to two times for credit.

ISM 4931 - Internship - Technology Management

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and permission of instructor.

LAE 4343C - Writing Across the Curriculum

This course prepares pre-service teachers by developing an understanding of the foundations of writing through the use of writers workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAD 3107 - Applied Discrete Mathematics

This course builds on the foundation established in Introduction to Discrete Mathematics with further exploration in logic, mathematical reasoning, and mathematical proof writing. Topics include logic, set theory, boolean algebra, combinatorics, and graph theory with applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
Completion of MAC 2312 with a grade of “C” or better or concurrent enrollment in MAC 2312 .

MAE 3350C - Principles and Methods for Teaching Mathematics K-8

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in grades K-8. This course requires a minimum grade of "C". Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAE 4312C - How Children Learn Math

This course is designed to develop the skills and concepts necessary to deliver the mathematics curriculum effectively in the classroom. The content strongly reflects the curriculum emphases of the National Council of Teacher of Mathematics, and topics are presented using a process-oriented approach. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAE 4930C - Seminar in Math Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in mathematics, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAE 4940C - Teaching Methods in Middle Grades Math Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching mathematics in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

MAN 3052 - Management Philosophy and Practice

A comprehensive study of contrasting philosophies of management, current theories of leadership, management and supervision, as well as current trends and issues for business managers; focuses on applications and cases for development of competencies across all business functions and units; emphasis is placed on the cross-functional aspects of management, as well as the manager’s need for a general business perspective.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; concurrent or prior enrollment in GEB 3031 is recommended.

MAN 3120 - Leadership and Group Dynamics

An applied leadership course with a focus on case studies, projects and group interaction; includes theoretical background on group dynamics, small group behavior and motivation, power, types of groups, verbal and non-verbal communication skills and team-building. Emphasis will be placed on sociological and psychological dimensions of inter-group relations, including analysis and problem-solving through simulations, cases and similar activities which reflect a general business perspective, as well as leadership and group dynamics across a variety of business units/functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; GEB 3031 and MAN 3052 recommended, but not required.

MAN 3240 - Organizational Behavior

Designed to develop student understanding of individual, group and organizational issues that affect and shape businesses. Topics include motivation, communication, decision making, leadership, power, organizational structure, team performance, organization diversity and change management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 3294 - Strategy and Innovation

This course explores the concepts and tools used by businesses to create and sustain competitive advantage under dynamic market conditions. Topics will include strategy formulation, understanding core capabilities, examining external competitive forces and evaluating goals. Emphasis will also be placed on understanding the process of innovation and challenges faced by innovative organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

MAN 3310 - Issues in Human Resource Management

Introduces the full range of human resource management functional areas, including recruiting and hiring staff, performance evaluations, employment regulations, discipline and termination, downsizing, compensation and benefits, job analysis, the organized labor setting, equity/diversity issues, and policy design. Approach will focus on current issues and applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; MAN 3052 preferred.

MAN 3320 - Employee Staffing and Benefits

An intermediate level course in employment staffing issues focusing on staffing patterns, organizational structures, job analysis and design, staffing efficiencies, employee assistance programs, staff projection models, and employee services.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
upper division standing and MAN 3310 .

MAN 3350 - Training and Development

Covers various staff training and development models, effective workshop techniques, designing and implementing company-wide training and development programs. Assessment of training needs, training and development as a benefit and setting development goals; students will design and conduct at least one workshop/training session for fellow students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3213 .

MAN 3574 - Acquisition Management

Students will be exposed to the fundamentals of government acquisitions. This course provides conceptual material on government acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work breakdown structures, cost -- benefit analysis, and scheduling.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

MAN 3583 - Project Management

In this introductory Project Management course, students will be exposed to the fundamentals of general project management. This course provides conceptual material on project management techniques appropriate in system/subsystems management. Topics include project management functions, project manager roles and responsibilities, the project life cycle, and conflict resolution. Emphasis will be placed on project oversight issues across the various business units and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 or MAN 3052 .

MAN 3593 - Logistics and Supply Chain Management

Logistics and Supply Chain Management provides an introduction to logistics concepts in both the business and government environment. The student will gain an appreciation of the various logistics missions encountered both in the business world and government acquisition and support programs. The key concept is that logistics is a process that adds value to the end product

whether it is a commercial item for a customer or a system used by the government which must achieve a desired state of readiness through an established or acquired infrastructure. Emphasis will be placed on the challenges related to providing logistical support for procurement, manufacturing, and life cycle support. The course will focus on supply chain strategies, logistics information systems, order fulfillment, inventory, demand forecasting, and collaborative planning. In addition, the student will be introduced to transportation constraints, third party logistics (3PL), warehousing, materials handling, international logistics and facility planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Upper division standing and MAN 3052 .

MAN 3903 - Operations Research

Operations Research is a science of modeling and optimization. It allows to model real-world problems by using mathematics, statistics and computers. It provides us the tools and theories to solve real-world problems by finding the optimal solutions to models subject to constraints of time, labor, resource, materials and business rules. With Operations Research, people make intelligent decisions to develop and manage their processes and businesses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing, STA 2023 , MAC 1140

MAN 4162 - Customer Relations for Managers

This course focuses on relationship building for all customers of an organization. The impact of culture and diversity on business relationships, successful negotiation strategies, and promotion of the organization through media relations are discussed. Emphasis is placed on the manager's role in improving customer relationships by creating a customer-focused, organizational climate.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing

MAN 4401 - Labor Relations

This course explores the impact of employee organizations on labor relations, current problems, conflicts and trends and includes the development of managerial approaches to achieve labor management cooperation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and MAN 3310 .

MAN 4520 - Quality Management

This course examines the strategic role of quality within an organization, as well as strategic issues involved in managing quality. Topics include assessing customer requirements, developing customer focus and measuring quality performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing; GEB 3031 or MAN 3052 preferred.

MAN 4555 - Quality Certification: ISO 9000

A comprehensive study of internationally uniform quality standards (ISO 9000 and the steps to individual and organizational certification; includes management responsibility, quality system documentation, contract review, design control, process control, inspection and testing, corrective actions and other certification topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

MAN 4720 - Strategic Planning and Management

This course addresses the integration of organizational functions to achieve competitive advantage and organizational harmony through strategy formulation, implementation and evaluation. Activities include case studies and a strategic planning simulation.

Topics include change theory, decision-making, planning models, and strategic planning processes as applied in a variety of business settings, units, and functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing and GEB 3031 and MAN 3052 or permission of the instructor.

MAN 4930 - Capstone: Acquisition Management

In this seminar, students will have the opportunity to participate in hands-on projects applying the techniques in Acquisition Management. Emphasis will be on government acquisition management. Students will create a work-breakdown structure, a project schedule, and perform a cost-benefit analysis of alternatives. Earned value management will be introduced as a method of program control. Students will also identify potential risk areas and suggest mitigation plans.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3574 and upper division standing.

MAN 4931 - Capstone: Project Management

This seminar will build on the basic project management skills by introducing the basic tools used by project managers. The student will learn management techniques for project planning, budgeting, scheduling and control techniques, cost estimating and project management software applications. Students will be exposed to the relationship of purchasing and contracting with project management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MAN 3583 and upper division standing.

MAN 4932 - Contract Negotiations Seminar

This seminar will refine the negotiation skills of the student through the use of readings, class discussions, case analyses, and practical exercises. Students will be introduced to goals, objectives, and strategies, as well as using appropriate tactics and methods to achieve them. The course will also help students understand the role of communication, power, and personality in the negotiation process and facilitate them assessing their personal abilities and traits as they relate to negotiation. While the course will focus on negotiation of defense-related contracts, the principles covered will apply to the entire range of interpersonal relationships.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and BUL 4333 .

MAN 4933 - Best-Value Source Selection Seminar

Focus is on the best-value source selection process. Students will walk through the acquisition cycle. Topics will include acquisition strategy, pre-solicitation activity, preparation for evaluation, initial proposal evaluation, discussions or negotiations, final proposal revision and recommendations and decisions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and MAN 3574 .

MAN 4934 - Logistics Management Seminar

A special topics course conducted in group or individual format; focus is on the terms, concepts and processes associated with logistics and distribution in the contemporary business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and MAN 3583 or MAN 3574 .

MAN 4940 - Capstone: Supervision

This capstone course will build upon and integrate the primary management skills and concepts introduced in prior emphasis courses. Students will have the opportunity to work on a hands-on project to demonstrate, apply, and develop their knowledge. This

course will also cover basic entrepreneurial principles, which will be integrated throughout the student-led projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Senior standing and completion of or concurrent enrollment in remaining core and emphasis business courses.

MAR 4333 - Marketing Strategy

This upper-level marketing course is aimed at the marketing functions of a business, with emphasis on how strategies are developed and how the marketing mix is created to meet the wants and needs of consumers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Upper division standing.

MHF 4404 - History of Mathematics

This course is for students pursuing an education degree with an emphasis in middle school and secondary mathematics. This course covers the evolution of mathematics from early number systems through modern mathematics. If used to meet NWFSC Teacher Education program requirements, this course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Completion of MAC 2311 with a grade of "C" or better or concurrent enrollment in MAC 2311 .

NSP 3640 - Nursing Care of Military and Veteran Populations

This course is designed to identify the unique healthcare needs of military and veteran populations in the United States in order to prepare students and practicing nurses to develop competence in designing nursing interventions within civilian and government agencies in which military members and veterans seek healthcare. In accordance with the ANA’s pledge (2012) to raise awareness of the unique conditions and needs of military veterans and their families, this course supports the Joining Forces initiative to further nursing training to include specialized topics such as traumatic brain injury, posttraumatic stress disorder, trauma rehabilitation, and understanding the military and veteran’s healthcare delivery system.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

NSP 4275 - Introduction to Critical Care Nursing

This course examines the needs of the critically ill client. As part of the human experience, the integrity of the individual and family may be disrupted by a critical illness. During such time, the critical care nurse assists the individual and family to restore life processes to a state of dynamic equilibrium. This course emphasizes the involvement through use of scientific rationale and application of the nursing process in providing care to the individual client and family. Critical care concepts and skills for promoting client and family well-being are stressed.

Credit Hour(s): 3 Credit Hours When Offered: (Summer)

NSP 4625C - Transcultural Nursing Immersion Course

This course unfolds in two phases: a comprehensive Orientation and Education Phase (I) and a Population Service Phase (II). The two stages are designed to be synergistic in nature. Phase I helps students to develop a deeper appreciation for an underserved region of the world. Phase I will set the stage for the immersion and learning that will take place during Phase II when students will provide basic healthcare and health education to an instructor chosen underserved population in the world. Air and ground travel are required. Current/valid Florida Registered Nursing License, good health, and a clear Background Check/Drug Screen are required. An International Passport may be required. Expenses associated with the course are the responsibility of the student.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Student must be a Registered Nurse and have a clear background check/drug screen.

NSP 4869 - The Professional Nurse Manager and Leader

This course outlines the roles and functions of nurses in executive practice using the competencies identified by the American

Organization of Nurse Executives (AONE). Successful nurse leaders and managers exercise complex leadership responsibilities that directly affect the quality of patient and family care in today's multifaceted healthcare management systems. This course will address competencies in communication, knowledge of the healthcare environment, business skills and principles, and professionalism. The course content also provides a review of the material covered in the Certified Nurse Manager and Leader examination conducted by the American Organization of Nurse Executives Credentialing Center that is available to BSN prepared Registered Nurses.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
Student must be a Registered Nurse to take this course.

NUR 3067C - Health Assessment

This course is designed to develop the student's knowledge for obtaining and recording a systematic, comprehensive health history, psychosocial assessment, and physical examination of the adult. The course involves the synthesis of nursing, biologic, psychologic, and sociocultural knowledge and theories as they apply to the findings obtained in the comprehensive health assessment of clients of various ages. During the fieldwork experience, emphasis will be placed on collection of a database through physical assessment, history taking and interviewing.

Credit Hour(s): 3 Credit Hours When Offered: (Fall and Summer) Prerequisite(s):
Admission to the BSN program and meets all enrollment conditions.

NUR 3071 - Writing for Success in Nursing

This course Is designed to develop the student's knowledge for writing at the upper division nursing level. The course includes information regarding use of APA format and scholarly writing resources.

Credit Hour(s): 1 Credit Hour When Offered: (Fall and Spring) Prerequisite(s):
Student must be a Registered Nurse to take this course.

NUR 3080 - Dimensions of Baccalaureate Nursing Practice

This course will provide Registered Nurses, who are returning to school to earn a Baccalaureate degree, an opportunity to advance professional practice concepts. As designed, the course engages the student intellectually in an ongoing professional dialogue and journey with peers, colleagues, and instructors that serves to broaden the student's professional development and builds on preexisting knowledge and experiences. The course curriculum is written for adult learners with the characteristics of self-direction, prior experience, applicability to practice, and motivation to meet the challenge to expand their knowledge base and to utilize advanced critical thinking skills.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
Admission to the BSN program and meets all enrollment conditions.l

NUR 3678 - Nursing Care of Vulnerable Populations

Caring for the vulnerable members of society is a function nurses perform without regard for their own ambitions, personal safety, and financial security. This course is designed to pull together material from different cultures and at risk groups of individuals considered vulnerable populations. Key concepts will be discussed that will provide a basic structure for caring for the vulnerable, the relevance of nursing theories to vulnerable populations, nursing research showing the kinds of phenomena nurses study, and many ideas about learning to work with and advocate for vulnerable individuals.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

NUR 3767 - Nursing Care of Complex Clients

This course assists the RN to BSN student in the assimilation of pathophysiology, assessment, and pharmacological nursing concepts with variety complex client issues. This course provides expanded concepts related to nursing care for individuals experiencing complex alterations in health problems as they progress through a variety of healthcare delivery systems and environments.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

NUR 3067C , NUR 3080 .

NUR 3826 - Nursing Ethics

This course provides an in-depth exploration of ethical principles and moral reasoning as the foundation of nursing practice. The ANA Code of Ethics will be used as a framework for examining current issues in healthcare delivery across the age span from reproductive issues to end-of-life care.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Must be an RN or ASN student.

NUR 3837 - Health Care Issues

This course provides a forum for the exploration and evaluation of concerns germane to contemporary nursing. The focus of this course is on the nursing profession and current major issues and problems that concern it. Social forces influencing changes in the nursing profession are analyzed in terms of historical antecedents and their current manifestations. Recently passed, and pending legislature at both the national and state levels is emphasized.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):
Current RN Licensure.

NUR 3905C - Independent Study - Clinical: RN to BSN

A defined independent study which is pursued under direct supervision of a faculty member and recorded through departmental procedures. Designed to provide an in depth exploration, development, and sharpening of clinical competencies in the Bachelor's level nursing clinical areas. Activities include targeted readings and research, as well as a final project or portfolio. Departmental approval is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
Permission of the Instructor or Department Chair is required.

NUR 3955 - Portfolio I

This course will provide RN to BSN students an opportunity to develop an electronic professional portfolio to express one's professional nursing expertise and proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):
Admission to the BSN program and meets all enrollment conditions.

NUR 4125 - Clinical Pathophysiology

This course examines the underlying pathogenesis, evolution, clinical manifestations, and complications of common disease processes across the life span. Normal and abnormal cellular alterations as well as specific body system alterations are covered in depth. Evidenced-based therapeutic clinical treatment modalities and pharmacological interventions are examined in an effort to provide the participants with a comprehensive clinical overview of disease alterations and clinical treatment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
Must be an RN.

NUR 4165 - Evidence-Based Practice: Incorporating Nursing Research

This course is designed to provide the RN to BSN student with an introduction to the research process and evidence based practice. The purpose of the course is to stimulate interest in nursing research; to enable students to understand and judge the usefulness of scientific findings; and to develop an understanding of how clinical proficiency is combined with experimental proof to produce nursing practices based upon evidence. An on-line teaching method is used with optional workshops available to students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
STA 2023 .

NUR 4615C - Family and Community Health

The Family and Community Health Nursing course is designed to facilitate the conceptualizing of family, population groups, and community as units of care from diverse cultures, ethnic, and social backgrounds. The student is provided a fieldwork opportunity to assess the health needs of selected families and groups in the community setting with selected health promotion, risk reduction, and disease prevention. The nursing process is used to examine multiple influences impacting life-course experiences of families and communities to enhance functioning.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 3067C , NUR 3080 , admission to the BSN program and completion of all General Education requirements.

NUR 4827C - Nursing Leadership and Management

This course provides students with an evidence-based study of leadership, collaboration, and coordination in healthcare settings. Students develop an evidence based paper to deal with key leadership and management issues related to professional goals. Nursing leadership and management fieldwork focuses on the roles and functions of the professional nurse in these roles. Issues associated with healthcare delivery are explored. Fieldwork provides an opportunity to plan, implement and evaluate a change in the practice of nursing.

Credit Hour(s): 5 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
NUR 3080 ,NUR 4165 , NUR 3067C , NUR 4615C .

NUR 4956 - Portfolio II

This course will provide students an opportunity to complete and evaluate their electronic professional portfolio to express their professional nursing expertise and proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring, Summer) Prerequisite(s):
NUR 3955 , NUR 3080 ; Pre or Corequisite: NUR 4827C .

PAD 3003 - Public Service Operations

An introduction to public administration and policy in America. This course is designed to provide undergraduate students a basic understanding and appreciation of the administration of the public sector. It is intended to provide an overview of public administration for students interested in public service and for students, who as good citizens, want an appreciation of the complexities of public management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
upper division standing.

PAD 3393 - Advanced Emergency Management

This course examines functional demands that emergency managers should be aware of in crafting emergency management policies and programs. Students investigate how public policy choices impact emergency planning and the consequences of a disaster. It is designed to help the student develop an in-depth understanding of overall emergency management principles, practices, and standards in the local, national, and international environments.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
upper division standing.

PAD 3820 - Public Safety System Integration

This course compares and contrasts the various components of the public safety sector. The course examines the working relationship between public safety organizations and the effectiveness of the various service delilvery models.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

PAD 3874 - Community Relations

This course will expose the student to community relations theory and practice within a broad range of public safety organizations. Students will understand why positive community perception of public safety is critical to funding and operational effectiveness. Students will explore the public safety responsibility in establishing business continuity both in preplanning and following a disaster. Each student will gain the insight and skills necessary to be effective in the community relations function of public safety administration.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

PAD 3882 - Issues in Public Service Administration

This course focuses on current issues and trends in the field of public service administration. The course is structured to introduce management and administrative topics in public service, examine the implications to the field, and reformulate recommendations. This course will begin developing skills in project design and presentation. This course will enhance critical thinking skills.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
upper division standing.

PAD 4878 - Capstone: Public Service

This course provides an opportunity for the student to complete a professional project and apply information and skills studied in core and concentration program courses under the direction of the professor. Successful completion of the course requires demonstration of achievement of the program's learning outcomes. This course should be completed in the last term before graduation.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
upper division standing.

PAD 4933 - Special Topics in Public Administration

This is an individual or group course designed to provide students with the opportunity to pursue a special topic(s) from the area of public administration in depth; may be repeated as topics change.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
Upper division standing and permission of the instructor.

Note:
This course may be taken up to three times for credit.

PAD 4940 - Internship: Public Service

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing and permission of instructor.

QMB 3250 - Quantitative Methods for Business Decisions

An examination of the quantitative methods used in business and economics, including methods of maximization and minimization objective functions, the analysis and use of statistic methods for planning, decision making, and forecasting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
upper division standing.

RED 3309C - Early and Emergent Literacy K-2

This course is designed to increase the understanding of early literacy development and the conditions which promote total literacy from birth through lower elementary grades. Language theory and current research are used to shape informed practices regarding literacy development. Connections are made among all aspects of literacy learning: reading, writing, listening, speaking and attitude development. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3324C - Teaching in the Middle Grades Curriculum

This course presents theory and methodology for teaching reading at the middle school level with emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading, and integrating reading and study skills into content area instruction across the middle school curriculum. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3335C - Teaching Reading in the Content Areas

This course addresses strategies, materials, and skills for teaching reading in content areas. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3324C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 3511 - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/ literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a minimum grade of "C" or better and is restricted to practicing teachers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C and upper division standing

Prereq/Corequisites:
EDG 3410C , EDG 3343

RED 3511C - Intermediate Literacy 3-6: Reading and Thinking

This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C and upperdivision standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4312 - Integration of Assessment into Classroom Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on integrating assessments into the curriculum to strengthen instructional strategies and student success. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
RED 3309C , RED 3511C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4519C - Diagnostic and Instructional Interventions in Reading

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C , RED 3511C and upperdivision standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

RED 4854C - Reading Field Experience

This course provides application of knowledge of reading development to reading instruction. Emphasis is placed on increased reading proficiency for struggling students, including students with disabilities and students from diverse populations. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
RED 3309C , RED 3511C , RED 4312 , RED 4519C , upper division standing with permission of department chair

SCE 3350C - Principles and Methods for Teaching Science K-8

This course provides techniques, methods and materials of instruction for teaching science in grades K-8. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4930C - Seminar in Science Education

This course is designed to prepare the pre-service teacher to transition into the workplace, and includes resume writing, professional dress and demeanor, interview techniques, refining professional portfolio, class discussion of issues common to teacher interns in science, and review strategies for certification exams. This course requires a grade of "C" or better.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SCE 4940C - Teaching Methods in Middle Grades Science Field Experience

In this course, students will apply knowledge of teaching strategies, methods and materials for teaching science in a middle school classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

SPN 3036 - Spanish for Health Care Providers

Spanish for Health Care Providers is designed for individuals majoring in nursing or working in health-related areas. The course focuses on vocabulary needed for the healthcare workplace, with grammar taught as a task-based practical skill. Students will learn phrases used to complete health assessments which include conducting interviews, filling out forms, writing reports, and reading and understanding medical articles and brochures. Prevalent disease processes will be discussed as well as cultural practices that affect health care, specifically the health care of Spanish-speaking patients. This course does not fulfill any part of the Florida state language requirements.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TSL 3081C - TESOL Issues and Practice

This course is designed to integrate the theories and principles of the Teaching of English to Speakers of Other Languages and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. The student will increase and apply knowledge and skills in the Uniform Core Curriculum relevant to this content area. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

TSL 4140C - ESOL Methods, Curriculum and Assessment

This course is designed to build on the candidate's knowledge of applied linguistics and cross cultural communication. Candidates will extend their understanding of the role of language and culture in the classroom. This course will prepare candidates for effective planning, instruction, and assessment of ELLs in the classroom. This course requires a grade of "C" or better. Current background check (fingerprinting) acceptable to the District in which the field experience will take place is required for this course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
TSL 3081C and upper division standing

Prereq/Corequisites:
EDG 3410C and EDG 3343

Adult Education Courses

XAB ___ - ABE Comprehensive

This course provides individual and small group instruction in reading, comprehension, math, basic computation, English and writing skills for adults who need to complete their elementary and secondary studies.

Note:

* Course number varies with number of instructional contact hours.

XEL 01___ - ESOL I

This course provides small group and individualized instruction in both oral and written English communication skills at the beginning level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 02___ - ESOL II

This course provides small group and individualized instruction in both oral and written English communication skills at the low beginning level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 03___ - ESOL III

This course provides small group and individualized instruction in both oral and written English communication skills at the high beginning level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 04___ - ESOL IV

This course provides small group and individualized instruction in both oral and written English communication skills at the low intermediate level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 05___ - ESOL V

This course provides small group and individualized instruction in both oral and written English communication skills at the high intermediate level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 06___ - ESOL VI

This course provides small group and individualized instruction in both oral and written English communication skills at the advanced level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XEL 07___ - ESOL VII

This course provides small group and individualized instruction in both oral and written English communication skills at the advanced secondary level. The course is designed for non-native English speakers.

Note:

* Course number varies with number of instructional contact hours.

XGE ___ - GED Comprehensive Preparation

This course provides skill and knowledge building for each of the GED subject areas of math, science, reading, social studies, and English.

Note:

* Course number varies with number of instructional contact hours.

Developmental Education Courses

ENC 0015 - Developmental Writing I

This course is designed to develop written language skills for students whose entry level placement scores do not meet requirements for degree credit (not applicable for degree completion). Basic sentence structure, paragraph organization, grammatical concepts, usage, and elementary punctuation will be emphasized. Approximately one-half of instruction will be focused on composing coherent, well-structured paragraphs. Students must pass this class with a "C" or better to move on to ENC 0025 .

Credit Hour(s): 4 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Score 50-89 on the PERT

Corequisite(s):

SLS 1101 .

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

ENC 0025 - Developmental Writing II

This course is designed to develop written language skills for students whose entry level placement scores do not meet requirements for degree credit (not applicable for degree completion). The course includes practice in writing paragraphs and essays, and provides a survey of grammar and mechanics (not applicable for degree completion). Students must pass the class with a "C" or better and obtain a passing score on the Departmental Exit Exam.

Credit Hour(s): 4 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Grade of "C" or better in ENC 0015 or score of 90-102 on the PERT or on an elective basis score of 103 or higher on the PERT.

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

ENC 0056 - Developmental Writing Module

This course is designed to develop written language skills for students whose entry placement scores do not meet requirements for degree credit courses (not applicable for degree completion). Conducted in a lab setting, this course is self-paced course, designed to allow students to focus on their individual grammar, usage, and writing needs to prepare for successful entry into college credit English courses (not applicable for degree completion). This course may be taken in place of ENC 0025 if a student has a placement score of 98-102 on the PERT. Students may exit Developmental Writing Module by passing the coursework and by obtaining a passing score on the Departmental Exit Exam.

Credit Hour(s): 2 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Students must score 98-102 on the PERT or on an elective basis score 103 or higher on the PERT.

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

MAT 0018 - Developmental Mathematics I

This course is designed for students whose entry level placement test scores do not meet requirements for degree credit (not applicable for degree completion). It is designed to reinforce the knowledge of operations and applications of fractions, decimals, percents, and signed numbers. An introduction to algebra will also be covered. Students must pass this class with a "C" or better to move on to MAT 0028 .

Credit Hour(s): 3 College Prep Credits When Offered: (Offered as needed) Prerequisite(s):

A score of 50-95 on the PERT.

Corequisite(s):

SLS 1101 .

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

MAT 0022 - Developmental Mathematics Combined

A course designed to satisfy the requirements of both MAT0018 and MAT0028 in one semester and prepare students for MAT1033A. Topics to be studied include computations with decimals, percents, integers, operations with rational and polynomial expressions, linear equations and inequalities in one variable, factoring, and basic linear graphing. This course will teach the student to understand and communicate concepts of algebra in the language of mathematics, both orally and written. Due to the nature of this course, calculators are not permitted.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PERT score 50-95 or ACT/SAT equivalent.

MAT 0028 - Developmental Mathematics II

This course is designed for students whose entry level placement test scores do not meet requirements for degree credit (not applicable for degree completion). This course emphasizes concepts, techniques, and applications of the following topics: operations with real numbers, linear equations and inequalities in one variable, rational expressions, properties of exponents, polynomials, radical expressions, and graphs of lines.

Credit Hour(s): 4 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Grade of "C" or better in MAT 0018 or score of 96-112 on the PERT or on an elective basis score 113 or higher on the PERT

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

MAT 0056 - Developmental Mathematics Module

This course is designed for students whose entry level placement test scores do not meet requirements for degree credit (not applicable for degree completion). This course emphasizes concepts, techniques, and applications of the following topics: operations with real numbers, linear equations and inequalities in one variable, rational expressions; properties of exponents, polynomials, radical expressions, and graphs of lines. Student may exit Developmental Writing Module by passing the coursework and by obtaining a passing score on the Departmental Exit Exam.

Credit Hour(s): 2 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):

Obtaining at least an 80% on the departmental final exam for MAT 0018 or a score of 105-113 on the PERT.

Note:

* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

REA 0007 - Developmental Reading I

This course is designed to improve the student's ability to comprehend college level written material (not applicable for degree completion). Conducted in a lecture/lab setting, this course is designed to improve vocabulary, comprehension, listening, and study skills. Also covered (at a basic level) are the skills that conform to PERT standards. Activities and materials are designed to meet the students specific needs as determined by diagnostic instruments. Placement is determined by a score of 50-83 on the PERT. Students must pass with a "C" or better to move on to REA 0017 .

Credit Hour(s): 3 College Prep Credits When Offered: (Fall, Spring, Summer) Corequisite(s):
SLS 1101 .

Note:
* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

REA 0017 - Developmental Reading II

This course is designed to increase the student's ability to comprehend college level written material (not applicable for degree completion). Conducted in a lecture/lab setting, this course emphasizes the development of the higher level reading skills and vocabulary needed for literal and critical interpretation of passages similar to those used in college textbooks. Students may exit from Developmental Reading II only after passing the course work and obtaining a passing score on the State Reading Comprehension test.

Credit Hour(s): 3 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):
Grade of "C" or better in REA 0007 or score of 84-103 on the PERT or elective basis score 104 or higher on the PERT

Note:
* College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

REA 0056 - Developmental Reading Module

This course is designed to increase the student's ability to comprehend college-level, written material (not applicable for degree completion). Conducted in a lab setting, this course is self-paced, designed to allow students to focus on their individual development of higher level reading skills and vocabulary needed for literal and critical interpretation of passages similar to those used in college texts. This course may be taken in place of REA 0017. Students must pass the class with a "C" or better and obtain a passing score on the end of course exam.

Credit Hour(s): 2 College Prep Credits When Offered: (Fall, Spring, Summer) Prerequisite(s):
Students must score 94-105 on the PERT or elective basis score 106 or higher on the PERT.

Note:
*College preparatory credits may not be counted toward fulfilling the number of credits required for a degree.

Lower Division College Credit Courses

ACG 2001 - Accounting I

This course covers the fundamental principles and procedures of double entry accounting as applied to the financial records of a business entity. The preparation of an income statement, statement of owner’s equity and balance sheet are emphasized. Specific transactions and internal control associated with cash, accounts receivable and inventory will be examined in detail. The code of professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
although not required, MTB 1103 is highly recommended.

Note:
▲Technology-Across-the-Curriculum Course.

ACG 2011 - Accounting II

This course covers recording of specific transactions and internal control associated with investments, fixed assets, liabilities, international operations and stockholders’ equity. Preparation of the statement of cash flow will be emphasized. The code of

professional ethics will be highlighted throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ACG 2001 .

ACG 2071 - Managerial Accounting

This course covers the basic principles of accounting techniques for the preparation of internal reports related to management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the entity.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ACG 2011 .

ACG 2450 - Computer Applications for Accounting

An introductory course in computerized integrated accounting procedures found in the microcomputer environment. Includes application of software designed for general ledger, accounts payable and receivable, financial statement analysis, purchasing and sales order processing, fixed assets, payroll, inventory and departmental accounting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ACG 2001 .

Note:
▲Technology-Across-the-Curriculum Course.

ACO 1806 - Payroll Accounting

Introduction to the theory, laws and procedures related to payroll activities of a business. Topics include payroll and personnel records, federal payroll laws, payroll operations, computerized payroll systems, and preparation of payroll registers, earnings records, and payroll tax forms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ACG 2001 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

AMH 2010 - American History I

American History to 1877; describes the social, political, and economic development of the American people against the geographical background of the New World. Particular emphasis on American intellectual and political thought leading to the emergence of basic American character, ideas and attitudes. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

AMH 2020 - American History II

American History from 1877, concentrating on industrial growth, the rise of corporate business, big labor, and government organization. Modification of basic American character and ideas as a continual historical process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from

placement testing.

AMH 2071 - Survey of Later History of Florida

A survey of Florida history from the Territorial Period to the 21st Century.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

AML 2010 - American Literature I

A course in American Literature from the pre-Colonial period to the Civil War. This course may be used for Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ENC 1101 .

AML 2020 - American Literature II

A course in American Literature from Civil War to present. This course may be used for Humanities credit. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ENC 1101 . (Note: AML 2010 is not a prerequisite for this course)

ANT 2000 - Introduction to Anthropology

Introduction to the fundamental principles, concepts, methods and theories in Anthropology. Includes a brief introduction to the subdisciplines of anthropology: cultural anthropology, biological anthropology, archaeology, and linguistics. A cross-cultural perspective will be paramount in the study of anthropology.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ANT 2100 - Introduction to Archaeology

Introduction to the fundamental principles, methods, and theories in archaeology. Includes a history of the development of archaeology, and examination of the nature of archaeological data and research, an introduction to archaeological data and analysis, and an examination of approaches to synthesis and interpretation. North and South American archeology is studied, but non-western examples are also studied to enhance an understanding of the development of the discipline in Europe and the Americas.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ANT 2159C - Florida Southeast US Archaeology

Introduction to special topics in anthropology and archaeology. Example: field experience in archaeology, brief introduction to prehistoric native American cultures in Florida and the southeastern United States and field experience excavating a prehistoric site in Okaloosa County.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

ARC 1131 - Architectural Presentation

This course introduces basic ideas and presentation techniques directed towards developing design skills, such as drawing, perspective sketching, and graphics using a variety of media to include: pencil, ink, colored pencils, markers, and model building to be used in architectural presentations. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Summer)

ARC 1301C - Design 1.1

The primary foci of this course are the development of two and three-dimensional graphic skills and the ability to think spatially and to manipulate elements in space. Analysis and design exercises are located primarily in abstract two/three dimensional space and deal with topics such as figure/ground relationships, line/plane/mass, the idea of systems, networks, repetition, and the relation of part to the whole. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 4 Credit Hours When Offered: (Fall)

ARC 1302C - Design 1.2

This course continues the emphasis and topics studied in Design 1.1, with increased expectation with regard to graphic and spatial manipulation ability. Students study exemplary works of architecture and art, beginning the process of developing an understanding of the role history plays in their creative explorations. By the end of the course, site and the human being are part of the design environment. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):
ARC 1301C .

ARC 2201 - Theory of Architecture

An introduction to architectural theory, selected contemporary architectural theories and movements, and their evolution and historical basis. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ETD 1102 .

ARC 2303A - Design 2.1

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):
ARC 2201 .

ARC 2304 - Design 2.2

Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation structure, resolution of form, space and place making, and human behavior.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):
ARC 2303A .

ARC 2472 - Introduction to the Technology of Architecture

This course is the beginning of the technology sequence in the areas of structures, environment technology, and materials and methods of construction. It introduces themes such as the response of buildings to the natural environment, the strength, stiffness, and durability in building materials, and the quantitative method of analysis and design of building assemblies and support systems. It explores the relationship between building technology and the social, aesthetic, environmental and economic aspects of the settings in which buildings are located, and how these factors relate to the process of architectural design. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 4 Credit Hours When Offered: (Summer)

ARC 2501 - Architectural Structures I

The emphasis of the course is on the development of the principles of statics and the application of these principles to the analysis and design of structural systems, primarily column, beam, slab systems, and the truss systems. The course builds on the basic ideas of structural form and material properties developed in Introduction to the Technology of Architecture.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
any college level physics or calculus course, and concurrent enrollment in ARC 2472 . This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

ARC 2701 - Survey of History of Architecture, Part I

A critical exploration of the history and theory of architecture from pre-history through the end of the 13th century. Examination of the making and intent of significant buildings and sites tracing the developments that have given meaning to the built environment and brought order to the tectonics of architecture. This course is designed as part of an articulation agreement with Florida A&M University; students interested in transferring to another upper division school should consult with an advisor.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

ARH 1000 - Art Appreciation

This course offers a study in the basic concepts of art, including function, style and structure with emphasis on the interaction of medium and meaning and problems of art criticism. This class does not fulfill the art history requirements for art majors, but compliments the art major's course of study as an elective. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

ARH 2050 - Art History: Pre-Renaissance

Survey of significant contributions in art from prehistoric through Renaissance. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2051 - Art History: Renaissance - 18th Century Neo-Classicism

Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2060 - Architecture History

Survey of significant contributions in architecture from prehistoric to modern times. Architecture will be considered in terms of stylistic qualities, structural type, and intended usage. Topics will be addressed according to historical content, societal background, and geographical location. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2402 - Art History: Modern Art

Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Summer and as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

ARH 2930 - Art History – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

ART 1201C - Two-Dimensional Design

An introductory course, both theoretical and applied, dealing with the principles of organization and the elements of design in a two-dimensional format. This is a foundation course for all of the graphic arts: painting, printmaking, and the two-dimensional crafts. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1203C - Three-Dimensional Design

An introductory course, both theoretical and applied, dealing with principles of organization and the elements of design in a 3-dimensional format. Various materials, tools, and surfaces are used to explore 3-D form. This is a foundation course. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1300C - Drawing I

Basic drawing course covering different drawing media, line, form, shape, value and spatial relationships. Drawing problems involving a variety of subject matter will be explored. Emphasis is on value, drawing techniques, spatial relationships between shapes and composition. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 1301C - Drawing II

Continued study of drawing techniques explored in Drawing I. Provides experience with more complex drawing problems. Emphasis is on self-expression, value, color theory, and composition. A variety of subject matter and drawing media will be explored.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 1300C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 1750C - Pottery I

The students shall be exposed to the production of pottery utilizing all known hand building techniques. Also includes introduction to potter’s wheel and basic wheel fundamentals. The first half of course is hand building, the second half is devoted to development of skills on the potter’s wheel. Students also learn how to glaze pottery and make glass. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

ART 1751C - Pottery II

Continues hand building of Pottery I, but major emphasis is placed upon development skills utilizing the potter’s wheel. Additional glazing experimentation is also emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ART 1750C . Please refer to catalog section regarding audit enrollment.

ART 1905A - Independent Study – Art

A defined independent study which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule. Departmental approval is required. Placement test is required. The course includes Writing-Across-The-Curriculum. If used to meet Gordon Rule requirements for general education, a minimum grade of "C"

is also required.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

ART 2330C - Figure Drawing I

The development of technical skills and self-expression through drawing the figure; course begins with anatomy studies, progresses to conceptualization of human form. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2331C - Figure Drawing II

This class is a continuation of Figure Drawing I. Emphasis is on composition and self-expression in relation to the human figure. Exploration of media and content will be encouraged.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 2330C . Audit enrollment In studio art classes is permitted on a space-available basis only.

ART 2500C - Painting I

Course will include design elements, composition and spatial relationships. Emphasis is on color theory, color mixing, and execution thereof within a variety of subject matter. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2501C - Painting II

This course is a continuation of Painting I ART 2500C with emphasis on further exploration of student’s personal style and original techniques. Further experimentation in abstraction and emotional aspects of form and color are explored and expressed.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 2500C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2540C - Water Color I

An introduction to water media techniques applied to various subject matter through demonstrations and various lab experiences. Open to all students. Audit enrollment In studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

ART 2541C - Water Color II

Allows continued experience in more complex water color technique and subject matter. Emphasis is on composition and individual expression.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ART 2540C . Audit enrollment In studio art classes is permitted on a space-available basis only.

ART 2602C - Digital Imaging I

A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to an appropriate high quality digital camera is required. It Is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

ART 2603C - Digital Imaging II

A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Access to an appropriate high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ART 2602C , PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

ART 2701C - Sculpture I

An introductory course in the technical and aesthetic consideration of sculptural forms. Includes a wide range of materials and expressions, representing past and present sculptural methods. Audit enrollment in studio art classes is permitted on a space-available basis only.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

ART 2703C - Sculpture II

Allows continued experience in more complex three-dimensional techniques; emphasis on individual projects and conceptual approach.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
ART 2701C . Audit enrollment in studio art classes is permitted on a space-available basis only.

ART 2834C - Gallery Practices

The principles of Art Gallery practices and operations. Both theoretical and practical experiences will be obtained through lectures, field trips and class projects.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

ART 2930 - Art - Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

ART 2955 - Portfolio Development

Development of a working portfolio through studio project aimed at fulfilling the general requirements the average company, university, art school or advertising agency looks for in a portfolio presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
ART 1201C , ART 1203C , ART 1300C , ART 1301C .

ASL 1140 - American Sign Language I

Introduces the student to the basic vocabulary and finger spelling of American Sign Language. Emphasis will be on learning to express this language in a simple form and have a basic receptive language competency.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ASL 1150 - American Sign Language II

This course increases the student's American Sign Language vocabulary and uses more complex expression of thoughts, ideas, and emotions and increases the receptive and expressive proficiency of the student in both sign and finger spelling.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ASL 1140 or an equivalent course with a grade of "C" or better

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ASL 2160 - American Sign Language III

A conversational course in American Sign Language utilizing skills and vocabulary from American Sign Language I and II and building on these to form more complex expressions in American Sign Language. Impromptu and planned stories, dialogues and skits will be performed. Receptive and expressive finger spelling will be advanced. No voice will be used for the majority of classroom time.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ASL 1150 or an equivalent course with a grade of "C" or better.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

AST 1002 - Descriptive Astronomy

This non-lab one-semester course is designed to meet the general education requirements in physical science for non-science majors and for students in related scientific fields needing a scientific elective. The course includes topics in planetary astronomy, the sun and stellar evolution, galaxies, and cosmology. Also covered are basic physical laws, light, and telescopes. Exercises require only basic math with some very limited algebra.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

AST 1005 - Introduction to Astrobiology

This course will explore the scientific evidence for the possibility, probability, and potential nature of life that might exist beyond the Earth. Contemporary discoveries about current and past conditions suitable for the origin of life on Mars and some of the moons orbiting other planets in our own solar system are reviewed in the context of what we understand about life on Earth. The question of life in other solar systems is also covered. Space travel and problems regarding intelligent extra-terrestrial beings visiting the Earth and intelligent life beyond the Earth but still within our own solar system are also discussed. All this is done in a fashion which integrates the various branches of science required to understand life beyond the Earth: Astronomy, Biology, Chemistry, Geology, and Physics. There are no prerequisites for this course and it may be taught in a team fashion by faculty members from various scientific disciplines.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BCN 1230 - Building Construction Materials and Processes

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

BCN 1272 - Blueprint Reading for Commercial Construction

A course to familiarize non-drafting students with techniques of blueprint reading and the fundamentals of construction methods that make blueprint reading meaningful.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 1520 - Electrical Systems in Construction

A course to familiarize students with electrical terminology, practices, methods, code requirements and safety and health in construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 1567 - Plumbing and Gas Construction Practices

A course to familiarize students with Plumbing and Gas code requirements, terminology, methods, practices, processes and safety and health used in building construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 2231 - Building Construction Materials and Processes II

Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

BCN 2560 - Mechanical Systems in Construction

A course to familiarize students with mechanical trades terminology, methods, practices, code requirements processes, and safety and health criteria in mechanical construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCN 2721 - Construction Management/Planning

The course covers project development and organization from pre-construction site investigation to final completion. The course will include the management of project estimates, plans, schedules, operations and safety. The student will become knowledgeable about documents used in the construction industry for bid, contracts, zoning, permits, bonds, loans specifications and drawings. Cost engineering, procurement, value engineering and quality assurance will be covered. Cost management through job cost analysis and purchase order systems will also be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 1763 - Construction Safety and Health

A basic course in construction safety and health, covering such topics as: theories of accident causation; workplace hazards; hazard analysis and prevention; accident reporting; OSHA construction standard and safety practices; environmental safety; violence in the workplace; ergonomics; ethics and safety; workers' compensation; and stress on the job.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 2761 - Structural Systems in Construction

A course to familiarize students with structural terminology, practices, methods, code requirements and safety, and health criteria in construction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BCT 2770 - Construction Estimating

A course in estimating as it relates to the construction industry covering references, estimating methods, take-off organization and presentation; material take-off, cost estimating in heavy construction, mathematical formulas for estimating, quantity take-off from plan review, and computer estimating overview.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
BCN 1230 , BCN 1272 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

BOT 1010C - Botany

This course covers the structure and function of seed plants, basic information on plant metabolism, including photosynthesis and water relations, and a survey of lower plants, algae and fungi. It introduces basic concepts of ecology and plant geography and stresses the importance of plants to humans. Laboratory sessions illustrate concepts from the lecture using specimens, microscope slides and field trips.

Credit Hour(s): 4 Credit Hours When Offered: (Spring)

BSC 1005 - General Biology

The principles of biology are included. Human Biology is emphasized. Man's effect on the environment is considered wherever appropriate. (NO LABORATORY — Not for majors in Biology).

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1005C - General College Biology

The principles of biology are included. Human Biology is emphasized. Man's effect on the environment is considered wherever appropriate. General biology uses experimental methodology and technique and includes a survey of bacteria, protist, fungi, plants and animals. The lab content will include a survey of organisms, dissection of plants, invertebrates and vertebrates.

Credit Hour(s): 5 Credit Hours (1 HC) When Offered: (Fall, Spring, Summer) Note:
(NWFSC Collegiate High School Students Only)

BSC 1005L - Biology Lab

Laboratory for General Biology. Experimental methodology and technique. Not recommended for Biology majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prereq/Corequisites:
BSC 1005 or equivalent.

BSC 1010C - Principles of Biology I

A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
high school biology and chemistry or CHM 1020 and eligibility to enroll in MAC 1105 .

BSC 1011C - Principles of Biology II

This course is a continuation of BSC 1010C . It provides an overview of the history of life on Earth, a summary of the concepts of phylogeny and classification, and a survey of organisms with emphasis on plants and animals. Structure, evolution, taxonomy, and ecology of the major phyla will be included. This course is required for Biology, Pre-Med, and most Pre-Professional Science majors.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
BSC 1010C .

BSC 1080 - Essentials of Anatomy and Physiology

This course surveys basic structure and function of the human body with emphasis on terminology and anatomy.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

BSC 1085C - Anatomy and Physiology I

A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1086C - Anatomy and Physiology II

A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 1905 - Independent Study – Biology

A course designed to (1) allow a student to complete part of a course taken elsewhere and thereby complete general education requirements, (2) to go deeper into special areas of interest.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

BSC 2020C - Human Structure and Function

A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

BSC 2946 - Directed Work Study – Biology

Practical experience with use and maintenance of lab equipment and materials. Participation in support activities and organizational routines of lab courses. Course fees may be waived. May be taken up to four times for credit. Departmental approval following interview is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

BUL 2241 - Business Law I

Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the Law of Sales based on the Uniform Commercial Code.

Recommended for Business degree students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

BUL 2242 - Business Law II

Course context explores laws relative to negotiable instruments, agency, partnerships, (includes study of Uniform Partnership Act), corporation law, creditors rights, consumer protection and insurance. Based on Uniform Commercial Code.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CAP 2134C - Database Security

This course is designed to provide the student with an understanding of database security concepts and practices. The objective of the course is to provide hands-on instruction in various database tasks that relate to securing the confidentiality, integrity and availability of information that is stored in a database. The student will be able to perform administrative tasks in different database management systems, as well as manage database user profiles, privileges, and roles. Different database application security models will be explored, as will the security advantages of utilizing virtual private databases. Finally, the process of database auditing will be explored, including auditing methods using various database management systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1660 and CGS 2541 .

Note:
▲Technology-Across-the-Curriculum Course.

CAP 2762 - Data Mining

This course offers exploration of data mining methodologies. Topics may include decision tables, decision trees, classification rules, association rules, clustering, statistical modeling, and linear models and will focus on data warehousing, data mining and data drilling.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):
CGS 2541 or any programming language.

Note:
▲Technology-Across-the-Curriculum Course.

CCJ 1010 - Introduction to Criminology

A study of the nature and causes of crime and delinquency; the development of delinquent and criminal behavior; theory development in criminology, crime rates and trends, victimology and particular crime pattern areas.

Credit Hour(s): 3 Credit Hours When Offered: (Spring)

CCJ 1020 - Introduction to Criminal Justice

An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies, court and criminal procedures, career opportunities in the Criminal Justice field are also covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CCJ 1941 - Internship – Criminal Justice

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the

second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Permission of the instructor

Note:
This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CET 1600C - Networking Fundamentals

This course introduces the student to the basics of Internetworking technology. This is also the first of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study networks and layers, networking devices, IP addressing, ARP and RARP, media and design, topology, structured cabling, electricity, and electronics and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1610C - Routing Protocols and Concepts

Basic Router terminology and configurations are studied in this course. The student will study router components, router configuration, IOS, TCP/IP, IP addressing, and router protocols. This is one of the four courses designed to prepare a student to take the CISCO Certified Network Associate Exam (CCNA).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
CET 1600C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1660 - Introduction to Network Security

This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1675C - Introduction to IP Telephony

This course explains how companies are using IP Telephony equipment and software to efficiently upgrade existing telephone systems. In addition, the course will give the student a fundamental understanding of the architecture of voice communication and how signaling, call quality and public switched telephone networks operate in a LAN/WAN networking environment. The use of IP Telephony products will be discussed and how software allows companies to cost-effectively upgrade and eventually replace existing (legacy) telephone systems with more cost-effective and easy-to-use telephone equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1600C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 1854C - Introduction to Wireless Technology

This course teaches key wireless networking topics, including wireless technology and architecture network design, types of wireless networks, and applications. Special focus on technical matters, wireless communication products, wireless networking products, and wireless LANS products. It is recommended that all students have a least a basic knowledge of networking, including protocol, the OSI module, and TCIP/IP.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2114C - Digital Fundamentals

This is the fourth and last course required for the electronics aide certificate. This is an introductory course for digital circuits, fundamentals, concepts, and design. Areas covered will include number systems, logic gates and circuits, and Boolean algebra. Digital devices covered will include decoders, encoders, multiplexers, demultiplexers, flip-flops, counters, and registers used in the application of combinational and sequential logic. Analog-to-digital and digital-to-analog conversion will be covered. Laboratory exercises will cover measurement and analysis of digital circuits and devices using digital test equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

EET 1141C

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

CET 2172C - Microcomputer Servicing

This course introduces the PC system, how it works and how the operating system controls it. Also studied are the components which make up the PC system, how to use multimeters and logic probes to make measurements and troubleshoot the system with the aid of diagnostic software. Students will perform fault analysis of simulated PC defects. In addition, students will learn to disassemble, reassemble and modify the PC hardware components.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2179C - PC Operating Systems A+

This course is designed to help prepare the student to take the A+ Certification exams by making the student proficient in personal computer operating systems, including Win 2000, Win XP, and Win Vista. Major topics include disk and file management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, remote assistance, and security essentials and security practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2182C - PC Hardware A+

This course is designed to prepare the student to take the A+ Certification exam, by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2615C - LAN Switching and Wireless

This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study LAN Switching, VLANS, OSPF, EIGRP, VTP, classless routing and Access Lists.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CET 1600C , CET 1610C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2620C - Accessing the WAN

This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the CISCO Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CET 1600C , CET 1610C , CET 2615C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2682C - Cisco Voice over IP (VoIP)

Instruction includes, but is not limited to, Voice over Internet Protocol (VoIP) theory, Voice Gateway configuration in a IP Telephony (IPT) solution, IP Phone configuration, design of VoIP networks and troubleshooting IPT networks. Students will design and configure various VoIP networks using case studies and laboratory equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 2620C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2685C - Fundamentals of Network Security

Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CISCO Security Specialist certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CET 1600C , CET 1610C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2854C - Fundamentals of Wireless LANs

Develop, implement and troubleshoot wireless networks. This hands-on, skill-based course focuses on the design, planning and operation of wireless networks, with an overview of technologies, security, and design best practices. This course helps prepare the student for the CISCO Wireless Certification.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
CET 1600C , CET 1610C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2880C - Digital Forensics Fundamentals

This course offers a solid foundation to computer forensics investigations: preparing students to acquire and analyze digital evidence. the course covers tools and techniques and explains topics such as file structure, data recovery, e-mail and network investigations, and expert witness testimony. In addition, the student will gain practical knowledge in conducting digital investigations and preserving digital evidence that maybe used in court or corporate inquiries.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1660

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2881C - Digital Forensics II

Digital Forensics II builds upon the foundational knowledge learned in digital forensics fundamentals. Students will utilize industry standard tools to conduct examinations of various digital media and document their findings. Devices to be studied include computers (server, desktop, laptop), mobile devices (tablets, cell phones, smart phones, mp3 players, gps), and devices such as dvr's and routers. Emphasis will be placed upon real-world digital forensics scenarios and the investigative thought process. At the conclusion of the class, students will be prepared to take the accessdata certified examiner (ace) examination.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 2880C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2891C - Wireless Network Security Certification

This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares students for the compTIA wireless certification exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1854C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2892C - Advanced Network Security

This course examines advanced network security topics including, but not limited to, advanced topics in integration of hardware firewalls, advanced topics in Intrusion Detection Systems (IDS), advanced topics in Internet Protocol-security (IPSec), and advanced topics in Virtual Private Networking (VPN) in network security design. Students will implement designs using equipment in a laboratory setting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1660 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CET 2905 - Independent Study, Computer Engineering

This is a directed study course to provide computer engineering students with individual projects designed to meet specific needs in areas of computer engineering technology for which present course availability is limited.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

instructor or departmental chair approval.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2940 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2941 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

Active enrollment in a technical degree program and permission of the instructor

Note:

This course may be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CET 2942 - Computer Engineering Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
active enrollment in a technical degree program and permission of the instructor

Note:
This course may be taken up to four times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CGS 1030 - Computer Basics

This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CGS 1100 - Microcomputer Applications

This is a hands-on course using computer software including discussion and practical applications of the Windows operating system, computing concepts, Internet, word processing, spreadsheets, database management, presentation software, and various communications topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CGS 1550 - Introduction to World Wide Web

This course provides an introduction to the required hardware, software, procedures, uses and building web pages on the World Wide Web and the Internet.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
demonstrated competencies in Widows and keyboarding skills.

Note:
▲Technology-Across-the-Curriculum Course.

CGS 1570 - Computer Applications for Business

This is a hands-on course using computer software (word processing, spreadsheet and database) to facilitate the activities involved in the business environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 or competency exam.

Note:
▲Technology-Across-the-Curriculum Course.

CGS 1843 - Introduction to E-Commerce

This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

CGS 2541 - Introduction to Database Concepts

This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students' understanding of the principles and techniques used in the design and implementation of modern database systems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 .

Note:
▲Technology-Across-the-Curriculum Course.

CGS 2544 - Advanced Database Concepts

The aim of this course is to explore advanced database concepts including an advanced exploration of data modeling and the design and implementation of relational databases. This course will extend the students' understanding of advanced principles and techniques used in the design and implementation of modern database systems and explore database problems and potential solutions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 , CGS 2541 .

Note:
▲Technology-Across-the-Curriculum Course.

CGS 2820 - Web Design

This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful window programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics and linking applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000

Note:
▲Technology-Across-the-Curriculum Course.

CHI 1120 - Mandarin Chinese I

This course focuses on pronunciation and grammatical structures of Mandarin Chinese, with emphasis upon balanced development of all four skills: listening, speaking, reading and writing. Covers all basic structures of the language and develops a foundation for further study of the language. Designed for students with no previous knowledge of Chinese.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

CHI 1121 - Mandarin Chinese II

This course is a continuation of Mandarin Chinese I with additional vocabulary and grammar. Pronunciation and grammatical structures of Mandarin Chinese, with emphasis upon balanced development of all four skills: listening, speaking, reading and writing. Covers all basic structures of the language and develops a foundation for further study of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):
CHI 1120 or an equivalent course with a minimum grade of "C".

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

CHM 1020 - Chemical Science

Fundamental principles and theories of matter and energy. Atomic theory, periodicity, properties, structure, kinetic molecular theory, bonding, solutions, scientific method, carbon compounds. This course serves as an introduction to chemistry for non-science majors, satisfying the General Education requirement for the A.A. degree; and as a preparatory course for students intending to enter college chemistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

CHM 1032C - General Chemistry for Life Sciences

This course is a one-semester introduction to chemistry especially appropriate for those pursuing a degree for a career in an allied health science field, although open to all students. Topics include atomic theory, bonding, nomenclature, gases, acids and bases, stoichiometry, and solutions, with an additional emphasis on reaction rates, equilibria, organic and biochemistry, and organic and biomolecules and their roles and functions in living organisms.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MAT 1033A or appropriate placement test scores.

CHM 1045C - College Chemistry I

Quantitative approach to modern theoretical and descriptive chemistry with appropriate development of laboratory technique. Includes symbols, formulas, equations, atomic structure, bonding, states of matter, stoichiometry, thermo-chemistry, solutions, colloids, molecular orbitals, periodicity and properties. A two semester sequence in general chemistry with laboratory exercises and demonstrations. University transfer credit.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MAC 1105 required; high school Chemistry or Physics, CHM 1020 or PHY 1020 advised.

CHM 1046C - College Chemistry II

Continuation of CHM 1045C . Includes kinetics, chemical equilibrium, acids and bases, thermo-dynamics, non-metals and their compounds, electrochemistry, redox, the atmosphere, hydrocarbons, biochemistry, nuclear chemistry, coordination compounds, and qualitative analysis.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CHM 1045C .

CHM 2210C - Organic Chemistry I

This course will present the correlation between structure and physical and chemical properties of organic compounds. The principle types of mechanisms involved in organic reactions will be discussed on aliphatic and aromatic hydrocarbons, alkyl halides, alcohols and ethers. Laboratory exercises illustrate these topics.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):
CHM 1046C .

CHM 2211C - Organic Chemistry II

In continuation of Organic Chemistry I the relationships between functional groups and properties of organic compounds will be discussed. Infrared, NMR, and mass spectroscopy will be used for identification of organic compounds and for structure analysis. The transition state theory is applied to interpret the nucleophilic addition reactions, the carbanion condensation reactions, the interconversions of carbonyl compounds and the nucleophilic acyl substitution of carboxylic acids and their derivatives. Biochemical topics, i.e. lipids, carbohydrates, amino acids and proteins are included.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):
CHM 2210C .

CIS 1000 - Introduction to Computer Science

A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Math placement at the college algebra level strongly advised.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

CIS 1940 - Internship in Computer Studies

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Permission of the instructor.

Note:
This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CIS 2352C - Ethical Hacking Fundamentals

This course is designed to provide the student with an understanding of the techniques and methodologies of security penetration testing. This course provides hands-on instruction using the various tools and methods that security professionals use to analyze an information system in order to discover vulnerabilities and protect against information loss, cyber-terrorism, and corporate espionage. The student will be introduced to fundamental security testing concepts, gain practical knowledge of computer programming, learn how to properly document a security test, and explore the legal and ethical ramifications of penetration testing. Students will also learn how to apply the appropriate countermeasures in order to reduce the risk that an organization faces.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
recommended knowledge level of networking.

Note:
▲Technology-Across-the-Curriculum Course.

CJC 2000 - Introduction to Corrections

Theories of punishment and incarceration; the organization of correction programs and institutions, principles of probation and parole, role of parole and probation officers, legal implications; and problems of rehabilitation are covered. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJE 2600 - Criminal Investigations

Fundamentals of investigation; duties and responsibilities of the detective; interrogation techniques; search and techniques of protecting the crime scene; collection and preservation of evidence; modus operandi systems; scientific aids and other sources of information; court preparation and case follow-up.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJJ 1002 - Juvenile Delinquency

A study of the nature and cause of juvenile delinquency, the development of the delinquent and criminal behavior, specific criminal justice subsystem (law enforcement, judicial, corrections) problems dealing with juvenile delinquents from initial contact through final disposition and treatment. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

CJL 1100 - Criminal Law

Includes the study of the fundamentals of Criminal Law to include historical background and development, jurisdiction, the criminal act and responsibility, as well as, classification and analysis of Florida Statutes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CJL 1400 - Criminal Procedure

Includes the study of the fundamentals of constitutional, criminal and civil law; principles, duties and mechanics of criminal procedures in Florida as applied to arrest, search, seizure, and court processing; and a functional analysis of the rules of evidence in court procedures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CJL 2500 - Courts and the Judicial Process

This course is designed to teach the student the major structures and basic legal concepts of the American criminal court system. The students shall learn the components, personnel, and inherent social issues in our present criminal court system.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CLP 1001 - Personal Adjustment

Psychology of adjustment, application of psychological theory for problem solving and better mental health. An examination of psychological defense mechanisms and adaptive behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CLP 2140 - Abnormal Psychology

A study of the different problems in psychopathology, including anxiety, depression, social deviance, psychosis, schizophrenia, mental retardation and general brain dysfunction of both children and adults, with emphasis on descriptive etiology, known causes, and treatments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
PSY 2012 .

COP 1000 - Introduction to Programming Concepts and Logic

General survey of programming/problem solving techniques. Includes an introduction to structured programming. Algorithm development will employ the use of a modern programming language.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

COP 2010 - Visual Basic Programming

This course introduces programming in Visual Basic.Net. The student will learn to create innovative and dynamic data structures using Rapid Application Development techniques. Topics to be discussed include: graphical user interface development and object-oriented programming.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:

▲Technology-Across-the-Curriculum Course.

COP 2011 - Advanced Applications Programming in Visual Basic

This course introduces the advanced features of Visual Basic.Net. The student will learn to create advanced versions of innovative and useful Windows programs using Rapid Application Development techniques. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic's internal database manager; multimedia, networking; and advanced data structures.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2010 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2030 - Programming In Python

An Introduction to Python programming language using microcomputers. Topics include Python basics, use of Python control and data structures, use of Python function, Python 110, and implementation of basic programming tasks.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000

Note:
▲Technology-Across-the-Curriculum Course.

COP 2176 - Visual Basic ADO.Net

The aim of this course is to provide an advanced level of knowledge in database programming using Visual Basic's ADO.Net, using normalization, object and relational types, modeling, data validation, and structured query language (SQL) in creating database applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 2541 , CGS 2544 , COP 1000 , COP 2010 , and COP 2011 .

Corequisite(s):
CGS 2544 , COP 2011 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2220 - Programming in C

An introduction to C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2222 - Advanced Programming in C

An advanced exploration of the C programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2220 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2224 - Programming in C++

An introduction to C++ programming using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2228 - Advanced Programming in C++

An advanced exploration of the C++ programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 2224 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2360 - Programming in C Sharp (C#)

An introduction to the C# programming language using microcomputers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2362 - Advanced Programming in C Sharp (C#)

This hands-on course examines how to utilize advanced features in the .NET Framework using the C# programming language, in order to build sophisticated applications. Students will work with advanced object-oriented programming topics, including inheritance, partial classes and generics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

COP 1000 and COP 2360

Note:
▲Technology-Across-the-Curriculum Course.

COP 2654 - Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the fundamentals and provides a broad perspective of the iPhone SDK platform. It begins with an overview of the Objective-C language and progresses into the details of the UIKit, as well as several other frameworks essential for development on the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2658 - Advanced Programming for Mobile Devices: iOS (iPhone/iPad)

This class teaches the advanced IOS programming topics and provides a broad perspective of the IPhone SDK platform. It begins with an overview of the Objective-C language and progressed into the advanced details of the UIKit, as well as several other

frameworks essential for advanced development of the iPhone and iPad.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 , COP 2654

Note:
▲Technology-Across-the-Curriculum Course.

COP 2660 - Programming for Mobile Devices: Android

This class teaches the fundamentals and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devices and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2662 - Advanced Programming for Mobile Devices: Android

This class teaches advanced concepts and provides a broad perspective of the Android development platform. It begins with an overview of the Java language and progresses into the details of the developing for Android-based mobile devises and tablets. The curriculum also covers several other frameworks essential for development on the Android platform.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
COP 1000 , COP 2660 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2700 - Introduction to SQL

An introduction to SQL and the design and creation of object-oriented databases (using SQL). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100

Corequisite(s):

CGS 2541 recommended.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2702 - Introduction to PL-SQL

An introduction to PL-SQL and the design and creation of object-oriented databases (using PL-SQL). Topics include storing, retrieving, updating and displaying data using PL-SQL and Oracle.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CTS 2440 or CGS 2541

Note:
▲Technology-Across-the-Curriculum Course.

COP 2800 - Introduction to Java Programming

An introduction to programming using the Java language. Students will develop and apply individual programs.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

COP 1000 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2805 - Advanced Java Programming

An advanced level programming course using advanced Java techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
COP 2800 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

COP 2833 - Databasing for Internet Applications

This course will expose students to basic relational database concepts used in web programming, including structuring data and making queries.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Fall, or as needed) Prerequisite(s):
CGS 2541 and COP 2840 .

Note:
▲Technology-Across-the-Curriculum Course.

COP 2840 - Web-based Programming I

This course is designed to extend the student's understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating e-Commerce applications.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 2820 .

Note:
▲Technology-Across-the-Curriculum Course.

CRW 2001 - Creative Writing I

Instruction and practice in writing fiction and poetry. Students will submit a poetry portfolio and complete at least one short story.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CRW 2002 - Creative Writing II

Advanced work in poetry and prose modes with emphasis on revision. Students will submit a poetry portfolio and write and revise at least one complete short story. Students will prepare creative work for publisher market.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

CRW 2100 - Introduction to Fiction Writing

Practice in writing fiction using various points-of-view. Students will submit completed short stories for workshop. Upon agreement with the instructor, students may elect to develop novel chapters with synopsis. Students will prepare creative work for publisher market.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CRW 2201 - Introduction to Creative Nonfiction

This writing course examines the narrative possibilities of creative nonfiction. We will explore structure, technique, and authorial

presence in representative works of established sub-genres, including literary journalism, travel and/or food writing, memoir, the lyric essay and collage.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CRW 2300 - Introduction to Poetry Writing

Practice in writing poetic forms employing poetic techniques. Students will workshop completed poems and submit a portfolio of revised poetry. Students will prepare creative work for publisher market.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CRW 2302 - Intermediate Poetry Writing

This course builds on poetry writing skills developed in CRW 2300 . Students will examine styles and techniques of contemporary poets and develop a portfolio of original work with attention to the revision process. Students will prepare creative work for publisher market.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CRW 2300 .

CRW 2600 - Writing Scripts for Film and Television

This course offers an introduction to the theory and practice of writing scripts for television and film. Students will develop a body of original work with a goal toward publication.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

CTS 1106 - Fundamentals of UNIX

This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1156C - Desktop Support

This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-620 and 70-622) required for certification as an MCITP: Enterprise Support Technician students should have user-level competency with Windows and MS Office.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CGS 1100 and CGS 1570 recommended.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 1347C - Windows Network Infrastructure 2008

This course addresses the configuration of Windows Server network infrastructure. Topics covered include: routing and remote access, network access protection, network authentication, IPv4 and IPv6 addressing, DHCP, DNS, WINS, DFS, IPSec, and security. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

none, although CET 2182C , CET 2179C , CTS 2134 , and CET 1660 would be useful.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 1383C - Windows Server Administration Fundamentals

This course provides basic concepts of server administration in a Microsoft server environment. Introduction to server installation, server storage concepts, administering services, Active Directory infrastructure and configuration, server roles, remote access, troubleshooting and performance monitoring, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: Windows 7 configuring.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2104 - Introduction to Windows

An introduction to operating systems in general with emphasis on Windows.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2134 - Network Technology

This course is designed to introduce students to the terminology and concepts of the network industry, including data communications and network services, OSI Model, topology, network media, connectivity devices and security. This is preparation for the CompTIA Network+ certification and the first course in the MCSE/MCSA certification program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2143C - CompTIA Server+

This course provides advanced concepts in server hardware components and troubleshooting in a non-vendor-specific environment. Introduction to server installation, server storage concepts, administering services, server roles, virtualization, performance monitoring, security, data protection, and maintenance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

recommended level of knowledge: CompTIA A+ Certification.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2163C - Windows 7 Client Operating System

This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remote users, and monitoring of resources and performance. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2302C - Windows Active Directory

This course focuses on a Windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Recommended level of knowledge: A+, Network +, Security +. This course prepares the student for the MCTS exam, a core requirement for Windows MCITP.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CET 2182C , CET 2179C , CTS 2134 , and CET 1660 are recommended.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2314C - Network Defense and Countermeasures

This course will explore concepts of network defense and countermeasures as well as hardware and software required to design, configure and implement secure networks. Security topics covered in this course include firewalls, Intrusion Detection Systems (IDS), Virtual Private Networks (VPN) and policy creation using the Windows Operating System (OS), Transmission Control Protocol/Internet Protocol (TCP/IP) packet and signature analysis. The student will get hands-on instruction installing the network defense mechanisms and countermeasure applications. Software will be used for collecting, monitoring and auditing various activities; students will analyze threats and intrusions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CET 1610C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2321 - UNIX Administration

This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CTS 2134 , CTS 1106 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2346C - Windows Server 2008 Administrator

This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Recommended knowledge level: A+, Network +, Security + and Win client operating system. This course prepares the student for the MCITP exam.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
CET 2182C , CET 2179C , CTS 2134 , and CET 1660 recommended.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2390C - Installing and Configuring Windows Server 2012

This course is the first of a series of three courses which provide the skills and knowledge necessary to implement a core Windows

Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration and is also preparation material for, Exam 70-410: Installing and Configuring Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Knowledge of Windows operating system and hands-on experience with Windows Client, Windows Vista, Windows 7, or Windows 8.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2391C - Administering Windows Server 2012

This course is the second in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total will collectively cover implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillets and tasks across the courses, this course will primarily cover the administration tasks necessary to maintain a Windows Server 2012 infrastructure, such as user and group management, network access and data security and is also preparation material for, Exam 70-411: Administering Windows Server 2012.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Hands-on experience working in a Windows Server 2008 or Windows Server 2012 environment. Knowledge equivalent to Installing and Configuring Windows Server 2012.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2392C - Configuring Advanced Windows Server 2012

This course is the third in a series of three courses which provide the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure in an existing enterprise environment. While there is some cross-over in skill sets and tasks across the three courses this course will primarily cover advanced configuration and services tasks necessary to deploy, manage and maintain a Windows Server 2012 infrastructure, such as identity management and identity federation, network load balancing, business continuity and disaster recovery, fault tolerance and rights management. This course is also preparation material, and maps directly to, Exam 70-412: Configuring Advanced Windows Server 2012 Services.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Experience in implementing, managing and maintaining a Windows Server 2008 or Windows Server 2012 environment.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2437 - Administering SQL Server Database

This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CTS 2134

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

CTS 2438 - Advanced SQL Server Database

This course provides students with advanced topics required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This course is designed to prepare the student for certification, an elective requirement for the Windows MCSA/MCSE.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
CGS 2541 , CTS 2440 , CTS 2437 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2440 - Introduction to Oracle

An introduction to Oracle and the design and creation of relational databases (using Oracle). Topics include storing, retrieving, updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, Functions, Packages and Triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 , CGS 2541 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

CTS 2445 - Advanced Oracle

Advanced topics in Oracle and advanced topics in the design and creation of relational databases (using Oracle). Topics include advanced storing and retrieving techniques, advanced topics in updating and displaying data using Structured Query Language (SQL) integrated into Stored Procedures, advanced topics in functions, packages and triggers (PL/SQL Programming).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
CGS 1100 , CGS 2541 , CTS 2440 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
▲Technology-Across-the-Curriculum Course.

DAA 1100 - Modern Dance

This beginning dance class serves as an introduction to the art of contemporary dance. It includes instruction and practice in basic modern dance techniques, improvisation, dance forms and brief historical overview.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring,, Summer) Note:
This course may be taken up to four times for credit.

DAA 1101 - Intermediate Modern Dance

This course includes a continued analysis of the modern dance at an intermediate level. Instruction and practice in specific contemporary dance techniques and performance qualities will be stressed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

DAA 1200 - Beginning Ballet

This beginning dance course is designed to serve as an introduction to the tradition and discipline of the art of classical ballet. Physical development of the body as an expressive instrument for ballet movement will be stressed as strength, flexibility, balance,

alignment, agility, turnout, control, elevation and sensitivity to line are studied.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

DAA 1201 - Intermediate Ballet

Intermediate Ballet is designed to train the student in the tradition of the art of the classical ballet beyond the basics. Continued development of the body as an expressive instrument for ballet movement will be stressed as students reach the proficiency level necessary to perform the more complicated steps of an intermediate class.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

DAA 1500A - Beginning Jazz

This course includes a brief history of the jazz dance and instruction and practice in jazz dance techniques exploring popular dance idioms.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

DAA 1501 - Intermediate Jazz Dance

Those students ready to move at the intermediate level in jazz will find this course beneficial for the improvement of jazz dance performance techniques.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:
This course may be taken up to four times for credit.

DAA 1520 - Beginning Tap

This course includes instruction in tap dance technique and the introduction of time steps commonly used in musical theater auditions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:
This course may be taken up to four times for credit.

DAA 1521 - Tap II

The Tap II dance class includes a more in-depth history of tap dance, instruction and practice utilizing tap and exploring its various styles.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
DAA 1520 .

Note:
This course may be taken up to four times for credit.

DAA 1580 - Musical Theater Dance I

This beginning course covers the study of musical theater dance techniques and styles as related to a specific performance experience, usually Creative Dramatics. Students must participate in designated rehearsals and performances.

Credit Hour(s): 1 Credit Hour When Offered: (Summer) Prerequisite(s):
level of competency determined by audition.

Note:
This course may be taken up to four times for credit.

DAA 1680 - Dance Workshop

This course includes instruction and participation in dance as required by specific productions, i.e., Theater/Show Choir.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:
This course may be taken up to four times for credit.

DAA 1681 - Dance Ensemble

The student shall participate in the preparation and performance of original dance compositions to include Dance Line and Show Choir performances.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
level of competency determined by audition.

Note:
This course may be taken up to four times for credit.

DAA 1905 - Directed Individual Study – Dance

This course is a defined independent study in dance pursued under the supervision of a faculty dance instructor and recorded through departmental procedures. It is designed to permit a student to pursue non-scheduled dance activity work which may be of a specialized nature and not available through classes or courses available in a college schedule.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
departmental approval is required.

Note:
This course may be taken up to four times for credit.

DAA 2202 - Advanced Ballet

Students enrolling in Advanced Ballet must have reached a high level of physical strength, mastery of skills, and technical knowledge in order to be eligible for placement in this section. Nuances of ballet performance and classical repertoire will be stressed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
DAA 1201 and/or appropriate level of competency approved by the instructor.

Note:
This course may be taken up to four times for credit.

DAA 2220 - Pointe

The student must already have mastered intermediate/advanced ballet terminology and movement vocabulary in order to be prepared for the physical demands of dancing on pointe.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
DAA 1201 and/or appropriate level of competency approved by the instructor.

Note:
This course may be taken up to four times for credit.

DAA 2581 - Musical Theater Dance II

The continued study of Musical Theater dance techniques and styles as related to a specific performance experience, usually Summer Ensemble Workshop. Students must participate in rehearsals and performances.

Credit Hour(s): 1 Credit Hour When Offered: (Summer) Prerequisite(s):
level of competency determined by audition.

Note:
This course may be taken up to four times for credit.

DAA 2610 - Dance Composition

An introduction and practice in the application of compositional tools encourages the student to explore and compose dance. By studying the body's movement in time and space the student will improve technical skills, develop improvisation and choreographic skills and enhance overall dance performance. Previous dance experience is helpful.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Note:
This course may be taken up to four times for credit.

DAA 2682 - Dance Workshop II

This course includes continued instruction and participation in dance as required by specific productions, i.e., Theater/Show Choir.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
A demonstration of competency determined by audition.

Note:
This course may be taken up to four times for credit.

DAA 2683 - Performance Dance, (Repertory and/or Original Choreography)

This course includes the continuation of study and participation in all rehearsals of selected works of dance repertory and/or original choreography culminating in public performance.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):
Demonstration of competency determined by audition.

Note:
This course may be taken up to four times for credit.

DAA 2930 - Dance – Special Topics

This is a defined special topics course pursued under the supervision of a faculty member and recorded through usual departmental procedures. It is designed to permit a student to pursue non-scheduled academic and laboratory work that may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This course may be taken up to four times for credit.

DAN 1750 - Dance Conditioning

Dance Conditioning is an excellent course in which to begin your dance training. It is designed to improve fundamentals for the beginning/intermediate student through daily practice in floor work, yoga, and Pilates exercises. This movement class will get you ready to meet the challenges of other dance classes by toning, strengthening and preparing the body to move.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:
This course may be taken up to four times for credit.

DAN 2120 - History of Dance

This course is a study of the development of dance as an art form, as entertainment, and how it relates to the history of cultures and societies, emphasizing the evolution of dance in the specific genres such as ballet, modern dance, jazz dance, and world dance forms. Designed to heighten student awareness of dance as an integral part of society and establish an appreciation of dance’s impact on the making of art. This course will give the student a foundation level understanding of dance as an art form and its historical and cultural significance. The major periods of dance history, master choreographers, and their works will be explored through lecture, discussion and media presentation. DAN 2120 is not an activity course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

DEP 2004 - Human Growth and Development

A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

DEP 2100 - Child Growth and Development

This course covers the growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

DSC 1002 - Domestic and International Terrorism

This course is designed to assist students in recognizing and understanding the elements and objectives of terrorism and 4th Generation Warfare and how they affect public safety planning and response operations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1004 - Introduction to NRF and NIMS

Designed to inform emergency responders and planners of the key elements in the National Response Framework (NRF) and the National Incident Management System (NIMS) and their relationship to planning and response operations. The curriculum includes classroom exercises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1222 - Psychological Management of Disaster Victims

This course introduces students to a general overview of terrorism and the potential psychological effect of terrorist events on victims.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1552 - Critical Infrastructure Protection

This course introduces participants to the Critical Infrastructure Protection (CIP) process to secure the effective protection of the people, physical entities, and cyber systems that are critical. The CIP course will guide leaders in the systematic protection of critical infrastructures. More basically, the course will introduce decision sequence that assists leaders and future leaders in ultimately determining exactly what really needs protection as well as when. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1562 - Homeland Security Threat Strategy

This course addresses problems of terrorism from a criminal justice perspective. It is designed to provide students with an understanding of the major issues associated with responding to terrorism in a democratic society. The course focuses on the threat of terrorism to the United States and will review specific strategies to deter terrorist threats to the U.S. The course will assess

the relative effectiveness of anti-terrorist activities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1631 - Planning Considerations for Terror Prevention

This course introduces participants to various aspects of planning for potential terrorist activity. The student will be introduced to basic principles of emergency management, communications, security threats, and the effects these operations may have on personnel. The student will learn techniques for evaluating their own jurisdiction's vulnerability against terrorist attacks. Students will gain knowledge of the roles and responsibilities of local agencies during terrorism responses. The course introduces participants to various aspects of emergency management of terrorist activity.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 1751 - Homeland Security Policy and Law

This course introduces participants to the major debates about balancing democratic freedoms with security from the Patriot Act to Supreme Court decisions on detention powers. The course provides insight into legal strategies necessary to confront ongoing national security threats. The course examines laws designed to preserve both our security and our democratic way of life.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 2055 - Issues in Disaster Response

This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, tribal, state and federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

DSC 2056 - Disaster Response Operations

This course examines the response protocol, logistics, responsibilities, interagency support, and concepts of front end planning involved in preparation for a catastrophic event. Students will be introduced to the development of an emergency response plan that will include concepts such as lookout, awareness, communications, escape, safety (laces), training, and various agency relationships.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ECO 2013 - Economics I

This course covers macroeconomics, its basic concepts and principles, national income accounting; fiscal and monetary policy and application, and growth economics. Basic math skills are required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, or as needed)

ECO 2023 - Economics II

This course covers microeconomics, including economic structures, price theory, factor markets, and general equilibrium. It also includes the economics of information, externalities, and other current national and international issues.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, or as needed) Prerequisite(s):
ECO 2013 or equivalent.

EDF 1005 - Introduction to the Teaching Profession

A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. During an eighteen-hour field experience, the student will observe and participate in the educational settings of local schools. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisites for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EDF 2085 - Introduction to Diversity for Educators

This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. An eighteen-hour field experience and examination of educational materials will enhance the student's understanding of multiculturalism. An additional fingerprinting cost may be associated with this course. This course requires a minimum grade of "C" if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EDP 2002 - Educational Psychology

Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1001 - Introduction to Early Childhood Education

Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall)

EEC 1002 - Early Childhood Program Administration

This course provides the student with management and administrative skills related to child care services. Instruction includes: director responsibilities; staff selection, supervision, and evaluation; planning for budget, nutritional services, facility maintenance, health, and safety; and marketing techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1201 - Infants and Toddlers

This course provides the student with information pertinent to the care of infants and toddlers. Special attention is given to selection of developmentally appropriate curriculum. Course work satisfies the Child Development Associate competency standards for Infant/Toddler.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 1309 - Early Childhood Education Foundations

Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Summer, Spring)

EEC 1401 - The Family In Early Childhood Education

This course is comprehensive in scope, emphasizing skills and concepts of parenting which include: adjustment to parental roles; parent-child communication, care, growth, and development of children; cultivating strong families; special concerns; alternative family structures; educational institutions working effectively with parents; and agencies and legislation affecting children and parents.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

EEC 1601 - Assessment in Early Childhood Education

Designed to increase objectivity and proficiency in observing and interpreting children's behavior in addition to increase awareness of normative patterns of children from birth through five years of age.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

EEC 1750 - Guidance for Young Children

A study of principles, methods, guidance and discipline techniques used to promote positive social development in young children; influence of environment and developmental level of child on social behavior.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

EEC 1949 - Internship, Early Childhood Education

On-the-job training (OJT) in the Associate in Science degree program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student's OJT objectives based on student's goals and prior training. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prereq/Corequisites:
DEP 2100 , and EEC 1309 or EEC 1201 .

EEC 2218 - Instructional Strategies in Early Childhood Education

Study of and development of effective skills and techniques used in program planning and use of creative media for young children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
EEC 1309 .

EEC 2220 - Language and Literacy Instruction In Early Childhood Education

Study of the principles, methods, and materials used to assist young children acquire basic skills to use language effectively and competently; evaluation and development of appropriate teaching materials to use with young children.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
EEC 1309 .

EEC 2222 - Math and Science Instruction In Early Childhood Education

Study of the basic concepts, methods, and materials of mathematics and science appropriate to the education of young children. Identification of the role of staff members in the center for the education of young children. Assignment with young children in community agencies.

Credit Hour(s): 3 Credit Hours When Offered: (Spring and as needed) Prerequisite(s):
EEC 1309 .

EEC 2732 - Child Nutrition, Health and Safety

Methods of meeting physical needs of young children through nutrition and good health practices. Recognition of childhood diseases and care of the handicapped child.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

EEC 2930 - Child Development Seminar

This course focuses on current trends and issues in the field of early childhood education. The topic will vary based on current trends and issues.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This course may be taken up to three times for credit.

EET 1015C - Electricity/Electronics I, DC Circuits

This is the first course required for Electronics Aide certificate. This course introduces the theories, concepts, and relationships of voltage, current, and power in DC series, parallel, and series/parallel circuits containing common circuit elements with single and multiple sources. Students are introduced to Ohm's Law, Kirchoff's voltage and current Laws, Thieving's, Norton's, super-position, and maximum transfer of power theorems and their uses in DC circuit analysis. Students will learn how to use a digital multimeter to trouble shoot and analysis DC circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1084C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1025C - Electricity/Electronics II, AC Circuits

This is the second course required for Electronics Aide certificate. This course introduces the theories, concepts, and relationships of voltage, current, and power in AC series, parallel, and series/parallel circuits containing common circuit elements with single and 3-phase sources. Students will apply Ohm's Law, Kirchoff's voltage and current Laws, Thieving's, Norton's, super-position, and maximum transfer of power theorems and their uses in AC circuit analysis. Included will be the use of a multimeter and oscilloscope for experimentation with and trouble shooting AC circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1015C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1084C - Introduction to Electronics

This course introduces the fundamentals, terminology, and applications used in the electronics industry. The topic coverage will include circuit theory principles, electronic components, transistor usage, amplifiers, power supplies, digital logic techniques, and electronic instruments. The course will also include some basic laboratory exercises to strengthen the topic coverage as it pertains to measurement involving both analog and digital circuits.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EET 1141C - Solid State Electronics

This is the third course required for Electronics Aide certificate. This course introduces the student to the concept, components, and uses of solid state electronics. Topics include semiconductor devices; thyristors and diodes, transistors, amplifiers, power supplies, oscillators, and optoelectronics. The use of capacitors and inductors in solid state electronics will be also covered. The design, set-

up, and troubleshooting solid state circuits and devices using various power supplies and function generators will be dispersed throughout the class.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1025C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 1180C - Industrial Electronic Troubleshooting

This course covers troubleshooting procedures for a variety of electronic equipment and circuits common to industrial applications. The student will develop and implement trouble shooting protocols and plans, equipment monitoring plans, a preventive maintenance plan, and select appropriate test and monitoring equipment. Safety in an industrial setting will be stressed and reinforced through a series of lab exercises throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1084C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2155C - Linear Integrated Circuits

This course covers the fundamentals and applications of linear integrated circuits and operational amplifiers. The course covers includes inverting and non-inverting amplifiers, comparators, signal generators, differential and instrumentation amplifiers, operational amplifier specifications, active filters, modulator-demodulator integrated circuits, timers, analog to digital converters (ADC), and digital to analog converters (DAC) and measurement and analysis of linear circuits and devices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1015C , EET 1025C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2190C - Industrial Electronics

This course investigates the applications of electronic and electrical systems common to industrial processes. The concepts and applications for polyphase circuits and three phase power will be explored and how they apply to industrial electrical power conditioning and management. The use of Computer Management Integration (CMI) and how they relate to industrial electronics will also be covered. Applications will include testing and troubleshooting industrial mechanical electronic circuits, analyzing industrial electronics and contributing systems failures to establish a maintenance plan, and evaluate the need for replacement, overhaul, and or upgrading of industrial electronic equipment. Safety will be covered and stressed throughout the course.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1084C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.

EET 2215C - Industrial Electronics Test & Measurement Instrumentation

This is an introductory course into the application, operation, and maintenance of industrial electronic test and measurement instrumentation used in manufacturing. Equipment covered will be DMMs, oscilloscopes with probes, function generators and analyzers, logic analyzers, and complete instrument systems to include automatic test equipment (ATE). Also covered in this course is terminology common to industrial instrumentation, error probabilities, degree of accuracy required, units, and standards used for reporting raw and analyzed results. Both standard and metric measurements will be covered.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1084C

Note:
*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EEX 2010 - Introduction to Exceptional Children

Study of incidence, nature, etiology and services available in connection with exceptional children including: hearing and speech problems, learning disabilities, mental retardation, blind, physically handicapped, gifted, emotional conflicts, and parents of exceptional children.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EGN 1111C - Engineering Graphics

Covers the use of instruments, lettering practice; geometric construction; multiview projection and conventions, auxiliary views, section views, axonometric and oblique projections, rotation, patterns and development, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1102 or equivalent: prerequisite only applies to Architectural Drafting and Design students.

EGN 1130C - Descriptive Geometry

Covers basic principles of orthographic projection, auxiliary views and rotation as they apply to points, lines and planes in space; addition of coplanar and non-coplanar vectors; intersections and developments; and selected abstract, exponometric and oblique projection, and practical problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
EGN 1111C or equivalent.

EME 2040 - Introduction to Technology for Educators

This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment. This course requires a minimum grade of “C” if used to meet state prerequisite requirements for entry into a Bachelor of Teacher Education program.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring Summer)

EMS 1119C - Emergency Medical Technician

Emergency Medical Technician is designed to prepare the student with the necessary fundamental knowledge to be successful in meeting Emergency Medical Technician certification and licensing requirements. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic. There is emphasis on assessment based learning and complies with National DOT EMT Basic curriculum.

Credit Hour(s): 6 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):
EMS 1401L .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1335 - Emergency Vehicle Operators Course

Students receive basic education and information on the safe and effective operation of emergency vehicles.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Program Director.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1337 - Defensive Tactics

Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

admission to the Paramedic program or permission of instructor.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 1401L - EMT Lab

An integrated experience that is designed to allow the student to apply practical experience to material learned in Emergency Medical Technician. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic in the laboratory environment, area hospitals and advanced life support EMS ambulances. There is emphasis on assessment based learning and complies with National DOT EMT-Basic curriculum.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

permission of the EMS Director and AHA CPR for the Healthcare Provider

Corequisite(s):

EMS 1119C .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2231C - Paramedic Processes I

First course in the sequence necessary for Paramedic program completion. Designed to integrate concepts and clinical skills learned at the EMT level with advanced life support concepts and skills. Emphasis on patient assessment, pulmonary anatomy and physiology, advanced airway management, pathophysiology and clinical management of shock, medical emergencies and traumatic injuries. Course is consistent with most current Department of Transportation (DOT) curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Paramedic program.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2232C - Paramedic Processes II

Second course in the sequence necessary for Paramedic program completion. Integrates and reinforces concepts and clinical skills learned in Paramedic Processes I, with emphasis on pharmacology, cardiology and Advanced Cardiac Life Support (ACLS) skills. Other topics include assessment and management of OB/GYN emergencies, psychiatric emergencies, pediatric emergencies, musculoskeletal injuries and mass casualty situations. Consistent with the most current DOT curriculum.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Corequisite(s):

EMS 2436L .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2233 - Paramedic Processes III

The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and

National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Corequisite(s):
EMS 2425L .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2342 - Advanced Extrication

Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and “junk” cars are used for experience with rescue tools.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2425L - Paramedic Externship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):
permission of the instructor

Corequisite(s):
EMS 2233 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2435L - Paramedic Lab I

The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-students ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Paramedic program

Corequisite(s):
EMS 2231C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2436L - Paramedic Lab II

This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor.

Credit Hour(s): 5 Credit Hours When Offered: (Spring) Prerequisite(s):
EMS 2435L

Corequisite(s):
EMS 2232C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2438C - Advanced Clinical Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
EMS 2232C , EMS 2436L and permission of the instructor

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2526 - Twelve-Lead EKG Interpretation

Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate or permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2552 - Advanced Cardiac Life Support (ACLS)

An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLC Provider” and successfully pass the course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate and CPR for Health Care Providers certification.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2553 - Pediatric Advanced Life Support (PALS)

Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardiopulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certificate or permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2555 - International Trauma Life Support (ITLS)

Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
EMT certification or permission from the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

EMS 2905 - Independent Study: Emergency Medical Services

A defined independent study which is pursued under direct supervision of a faculty member and recorded through departmental procedures. Designed to provide an in-depth exploration of a special or advanced topic in the Emergency Medical Services field. Activities include targeted readings and research, as well as a final project or portfolio. Departmental approval is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
permission of the instructor/department.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. This course may be taken up to three times for credit.

EMS 2940 - Internship: Emergency Medical Services

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ENC 1101 - English Composition I

Instruction and intensive practice in expository and argumentative writing including a documented paper. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
▲ Technology-Across-the-Curriculum Course

ENC 1101L - English Composition I Lab

An instructor directed writing workshop designed to improve student's opportunity for success in ENC1101. Students will strengthen writing and grammar skills necessary to master the topics and concepts covered in ENC1101. Areas of focus include, but are not limited to, the following: expository and argumentative writing; appropriate diction; conventions of Standard American English

grammar, punctuation, sentence structure; conventions of MLA.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ENC0025 and REA0017 or equivalent with a "C" or better grade or appropriate placement scores or exempt from developmental studies.

Corequisite(s):
ENC 1101

ENC 1102 - English Composition II

Interpretative and critical reading of fiction, drama, and poetry. The student will write analytic discourse and research papers as part of the essay process. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of ENC 1101 or an equivalent course with a grade of "C" or better.

ENC 2210 - Technical Report Writing

The course covers the fundamentals of technical report writing, mechanics, and style. Various types of reports are prepared and evaluated. The course also includes reading and analysis of technical literature as well as oral reporting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
passing score on placement test.

ENG 1001 - Research Papers

A learn-by-doing course in the methods of conducting library research and writing a documented paper. Students will work on self-selected subjects under the supervision and guidance of the instructor in a tutorial relationship. For successful completion, each student will write a documented paper in accordance with a standard system. This course may be taken four times for credit.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be used as a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. Students may use this course to satisfy deficiency in the Gordon Rule writing requirement, but it may not be used in lieu of traditional Gordon Rule courses, such as ENC 1101.

ENL 2012A - English Literature I

A study of English literature from the Old English period, Beowulf, through the late Eighteenth century, the Age of Enlightenment, focusing on major works and their authors with an emphasis upon the literature as a significant reflection of and contribution to the political, cultural, social, religious, and economic milieu of each age. This course may be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ENC 1101 .

ENL 2022 - English Literature II

A study of English literature from the Romantics through the modern era, focusing on major works and their authors with an emphasis upon the literature as a significant reflection of and contribution to the political, cultural, social, religious, and economic milieu of each age. This course may be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet Gordon Rule requirements for general education, a minimum grade of "C" is required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ENC 1101 . (Note: ENL 2012A is not a prerequisite for this course)

ESC 1000 - Earth Science

This course provides an introduction to materials, processes, and interactions of Earth's global environments – the lithosphere (solid earth), hydrosphere (water earth), atmosphere (gaseous earth), and biosphere (living earth). It also includes a survey of sciences pertaining to the Earth, including basic astronomy, meteorology, oceanography, and geology.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

ESC 1000L - Earth Science Lab

Laboratory experiences pertaining to the physical environment: observation, measurement, data analysis, mapping, map interpretation, and properties of earth materials. This is an optional course serving students who transfer to universities which require a laboratory course to satisfy the General Education requirement in Physical Science.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer)

ETD 1102 - Introduction to Technical Drawing

A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1112 - Mechanical Drafting I

The second of a sequence of courses in drafting which includes basic use of instruments, freehand lettering, geometric construction, orthographic projection, sections and conventional revolutions, dimensioning, inking, mechanical lettering, methods of reproduction, and developing computer-aided drafting skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 1102 and ETD 1320C or equivalent

Corequisite(s):
ETD 1217 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1217 - Fundamentals of Dimensioning and Tolerancing

A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
for Drafting and Design student course should be taken with ETD 1102 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 1320C - AutoCAD I

A basic course on the use of AutoCAD Software to include: introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1102 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1340C - AutoCAD II

The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block, attributes and X-Ref, paper space, UCS, data exchange and output files.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1320C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1355C - AutoCAD 3-D Modeling I

A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
ETD 1340C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 1801C - Technical Illustration

The purpose of this course is to help students develop the skills, knowledge, and attitudes necessary to be job entry-level qualified as technical illustrators.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
ETD 1112 or EGN 1130C , and ETD 1340C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2150 - Industrial Print Reading

The beginning level aspects of reading industrial prints such as drawing notes, title blocks, revision blocks, legends, schedules, multiviews, and parts list.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2218 - Geometric Dimensioning and Tolerancing

An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):
ETD 1217 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2219 - Advanced Geometric Dimensioning and Tolerancing

An advanced course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definitions and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, math for positional tolerancing, quality assurance methods and techniques, and manufacturing methods and techniques.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 2218 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2250 - Tolerance Stacks I

A course for engineers, designers, inspectors and other engineering personnel. This course consists of learning how to perform tolerance accumulation studies within a part or assembly to include: coordinate dimension stacks and stacks involving geometric tolerancing.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 2218 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2350C - AutoCAD III

An advanced course designed to help students develop proficiency in the area of computer aided drafting and systems drafting. Topics covered include: transfer drawings, digitized drawings, explanatory drawings, multiview projections, exploded assemblies, pictorial drawings, auxiliary views, sections, details, geometric dimensioning and tolerancing, and CADD concepts.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 1340C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2357C - Inventor I

A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
ETD 1102 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2358C - Inventor II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using Inventor Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
ETD 2357C .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2360C - AutoCAD 3-D Modeling II

An advanced course in mechanical design using advanced computer techniques. Contents will include: 3D concepts, wire modeling, surface generation techniques, and solid modeling techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
ETD 1355C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2364C - SolidWorks I

A basic course in Parametric Solid Design using SolidWorks Software. Topics include: basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
ETD 1320C or higher or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2368C - SolidWorks II

The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: sheet metal modeling, assembly concepts, assembly modeling approach and tools, advanced constraints, motion simulation, adaptive technology and drawing presentation.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
ETD 2364C or higher or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree. ▲Technology-Across-the-Curriculum Course.

ETD 2371C - Rapid Prototyping I

This course will develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students select a field of specialization to explore methods and materials in a number of options in industrial environment with the use of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 2364C , or ETD 1355C , or ETD 2357C or permission of instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2372C - Rapid Prototyping II

The student will continue to develop elements of creative thinking and problem solving used in the design process, including the techniques and methods used to construct prototypes and models. In the project aspect of this course, the students expand their knowledge in the methods and materials and of computer simulation, modeling, and rapid prototyping.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ETD 2371C or permission of the instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2377C - 3D Studio Max I

Course is designed to use 3D Studio in rendering, and animation as a dynamic visualization tool for AutoCAD design images. Upon completion of this course, the user will be able to navigate through the modules of the program, model simple projects, set up scenes for rendering and animation, assign materials to objects, and define simple motion paths, input and output techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 1355C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2395C - Architectural Desktop for Architecture

A basic course in 3D Architectural Modeling using AutoDesk Architectural Desktop Software. Topics include: introduction to Architectural Desktop, creating floor plans, modifying walls, advanced wall features, placing doors and windows, door and window assemblies, creating roofs and roof slabs, creating slabs for floors and ceilings, creating elevations, sections and details, and annotation and documentation.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 1320C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2542 - Structural Drafting

A course in the fundamentals of structural drafting including: an overview of structural drafting, prestressed concrete drafting, structural steel drafting, and poured on-site concrete drafting.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
TAR 2121C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2543C - Structural Drafting II

An advanced course in structural drafting covering prestressed concrete drafting, structural steel drafting, and poured-on-site concrete drafting for large commercial and industrial buildings as well as bridges, parking decks, towers, and stadiums.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
ETD 2542 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2571 - Construction Drafting

A course to prepare students to develop shop drawings for large construction projects. Topics covered include: steel, precase concrete, prestressed concrete, poured-in-place concrete, and heavy timber construction projects.

Credit Hour(s): 6 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
EGN 1111C or ETD 1112 or equivalent.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2731 - Mechanical Drafting II

A course that continues and completes the student's study of the fundamentals intrinsic to all types of drafting. Topics covered include isometric, diametric, trimetric, oblique, and perspective projection, descriptive geometry, auxiliary views, related mathematics, precision dimensioning developing computer-aided drafting skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 1112 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2735 - Mechanical Drafting III

A course that continues and completes the student's study of the fundamentals intrinsic to all types of drafting. Topics covered include: isometric, diametric, trimetric, oblique, and perspective projection, descriptive geometry, auxiliary views, related mathematics, and precision dimensioning developing computer-aided drafting skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 2218 or permission of instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2802C - Technical Illustration II

The purpose of this course is to help students develop advanced skills, knowledge, and attitudes necessary as technical illustrators, to include oblique, and axiometric projections, perspective and exploded pictorial drawings, and related techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
ETD 1340C or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETD 2905 - Independent Study – Drafting

Practical treatment of special geometry, graphics, and design with emphasis on individual work projects utilizing such graphical techniques as orthographic projection, perspective drawing, auxiliary views, topographic drawing, and graphing.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
EGN 1111C and ETD 1112 or permission of instructor.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
* This course may be taken up to four times for credit.

ETG 1941 - Internship

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
permission of the instructor

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1411 - Advanced Manufacturing Processes

This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1414C - Introduction to CNC Machines and CNC Machining Practices

This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: theory, operation, setup, safety and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1420 - Properties of Materials and Cutting Tools

This course is designed to provide the student with an introduction to the basic properties of materials, principles and processes in the metal working and plastics field, and tools and machinery involved in manufacture of metals of plastics. This course covers non-chip producing and chip producing manufacturing processes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1710 - Occupational Safety

A basic course in occupational safety and health covering such topics as: theories of accident causation, workplace hazards, hazard analysis and prevention, accident reporting, OSHA, ergonomics, product safety, workers' compensation, and stress on the job.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1713 - Implementing Total Safety

A course on implementing the total Safety Management (TSM) approach to workplace safety and health. Major topics include the TSM Steering Committee, TSM Facilitator, and improvement project teams (IPTs).

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 1715 - ISO 14000 - Environmental Management

ISO 14000 is the international standard for Environmental Management Systems that promote environmental protection and prevention of pollution in balance with socioeconomic needs. This course prepares individuals to guide an organization through the steps necessary for ISO 14000 registration and subsequent audits and triennial re-registration, or to be effective participants (employees of any rank) in an organization already registered to ISO 14000.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2110 - Total Quality Tools

This course prepares students to effectively solve business/process/product problems, track process performance, find process and product improvement opportunities, and validate improvements made, using the necessary intellectual tools and procedures including: Five-S, flow charting, Pareto analysis, cause and effect diagrams, histograms, check sheets, scatter diagrams, stratification, statistical process control, failure mode and effects analysis.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2111 - Quality Tools II

This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2114 - Benchmarking

A course covering the fundamentals of benchmarking. Major topics include: rationale for benchmarking, management's role in benchmarking, obstacles to benchmarking, selection of processes to benchmarking, and acting on benchmarking data.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2117 - Introduction to Total Quality Management

Total Quality Management (TQM) is the proven management system used by successful world-class private and public organizations of all kinds worldwide. Developed and propagated during the latter part of the 20th century and further evolving in the early 21st century, TQM continues to make organizations more effective and competitive in the global economy. This course provides students with a comprehensive understanding of the contemporary management philosophy, concepts, tools, and techniques of Total Quality and related quality management initiatives including ISO 9000, Six Sigma, and Lean. Individuals employed by organizations contemplating, or already using, TQM, ISO 9000, Six Sigma, or Lean should consider this course as a way to become a more effective employee regardless of rank.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2131 - Statistical Process Control

A course covering the fundamentals of SPC. Major topics include: rationale for SPC, inhibitors of SPC, management’s role in SPC, the quality tools, and control charts.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2190 - Implementing Total Quality

This course prepares individuals to guide a successful implementation of Total Quality Management in any kind of organization, or to be an effective participant (employee of any rank) in a Total Quality implementation. The course features a 20 step process for implementation, each fully detailed, developed, and sequenced, to apply to any organization. Emphasis is placed on the critical role of executive level leaders, and variation among organizations.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer, Fall) Prerequisite(s):
ETI 2117 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2411C - CNC Machining I (MasterCam-Lathe)

This course provides training in CNC machine operation and programming. The student will gain technical knowledge and programming methods employed in CNC machining centers. CNC Machine programming, set-up and operations are taught using computer and hands on applications. Metal fabrication processes are taught through lectures, demonstration and student generated projects. Completion of this course offers students technical skills as a CNC operator processes to be applied in various machining and fabrication industries. MasterCam–Lathe is taught to provide the student programming application in CNC machining.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 1102 or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2414C - CNC Machining I (MasterCam-Mill)

This course will offer students a working knowledge of MasterCam Mill 2-D and Solidworks. This is the first class offered which teaches the student 3-D design using solidworks. An in-depth study of CAD/CAM software, CNC processing methods and the set-up of CNC machining centers. The course lectures and lab offer students hands-on applications using Solidworks generated projects processed with Mastercam tool path software to generate various projects. The student will also learn to calculate machining feeds and Speeds, edit CNC programs and part production for Mill, Lathe and CNC Routers.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETI 2412C [Inactive] or equivalent.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETI 2419C - Advanced Concepts of CNC Machines and CNC Machining Practices

This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: theory, operation, setup, safety, and practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETM 1010C - Mechanical Measurement and Instrumentation

This course provides the foundation for mechanical and electronic measurement techniques used in manufacturing environments. The course will integrate the concepts, principles, and techniques of mechanical measurement with the use of various types of instruments including micrometers, verniers, calipers, height gages, digital multimeters and other types of measuring equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

ETS 1511C - Motors and Controls

This course explores the theory and application of AC and DC motors, types of single-phase motors, three-phase power, three-phase motors, remote and local control, forward and reversing motor starters, and various motor control circuits. Wiring and troubleshooting exercises of electric three-phase motor control circuits are emphasized in a wide range of applications.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
EET 1084C

Note:
*This college credit course is not intended for transfer and may not be applied toward the AA degree.
(Course number pending)

EUH 2032 - The Holocaust

A survey of European anti-Semitism, the rise of institutionalized and codified racism in Nazi Germany and the resulting Holocaust. Examines the role of the state and the citizenry in genocide. Also examines the nascent anti-Semitism of the modern world and the rise of Israel as an international power.

Credit Hour(s): 3 Credit Hours When Offered: (Offered Spring) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

EVR 1001C - Environmental Science

A study of the physical and biological environment and man's ecology with emphasis upon contemporary biological problems.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

EVR 1940 - Internship, Environmental Science

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
Minimum grade of "B" in any college level science course and permission of instructor.

FFP 1140 - First Responder for Public Safety Personnel

This course introduces the student to the skills and techniques used for first response to medical emergencies. Classroom instruction includes a variety of medical related topics encountered by public safety personnel. Practical exercises and scenarios are included to enhance classroom instruction and skill development.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1301 - Fire Service Hydraulics

Introduction to the study and characteristics of hydrostatics and hydrodynamics in the fire service; to include basic hydraulic measuring units, facts, theories, and formulas for problem solving. The course covers the relationship between flow and pressure and mathematical hydraulic formulas.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1302 - Fire Apparatus Operations

The curriculum covers the laws, rules and driving techniques for emergency vehicles, as well as an introduction to fire service hydraulics. Fire ground evolutions and pumping operations make up the practical part of the course. The evolution portion of the course includes the calculation of friction loss in hose and appliances, calculation of gallons per minute needed in fire streams, use of pre-connected lines, tandem pumping, drafting, relays and master streams.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1505 - Fire Prevention Practices

This course is a survey of the principles of fire prevention and investigation. It includes a study of fire hazards in various occupancies; a review of fire prevention codes; a study of procedures and techniques of fire prevention inspection, to include surveying and mapping, recognition and elimination of fire hazards, public relations, methods of determining the area of fire origin, fire cause, fire spread and location and preservation of evidence.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1510 - Fire Service Codes and Standards

This course is a study of building and life safety codes in relation to types of occupancies, building design, fire resistance of building materials, fire problems inherent in structures and life safety considerations. A problem solving emphasis is used to provide opportunities for application of building and life safety code enforcement methods to prevent and correct building design problems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1540 - Private Fire Protection Systems I

This is a study of private fire protection and detection systems, such as sprinkler and standpipe systems, chemical extinguishing systems, detection systems and devices. Each system is discussed as to its need, construction, preventive maintenance and individual uses.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1740 - Fire Service Course Delivery

The curriculum draws from many recognized authorities in exploring the methods and mechanics of imparting information and adult learning principles. The course emphasizes techniques which have wide application in teaching situations, as well as devices for specific areas. Also stressed are measuring teaching effectiveness, the use of media and visual aids.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1800 - Disaster Education for Individuals and the Community

This course provides a study of the design, development, and delivery of public disaster safety education and programs including: methods of identification of disaster safety programs, the selection of target programs and strategies of affect reduction, methods of designing and implementing information and educational programs, and methods of evaluating a program’s impact. Studies include theoretical and practical skills training in individual, group, and mass media communications, instructional skills, planning priorities, and evaluation techniques.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1801 - Introduction to Emergency Management

This course will discuss emergency management practices and how they relate to natural and man-made disasters. It is designed to help the student develop an understanding of overall emergency management principles, practices, and standards in the local, national, and international environments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1810 - Firefighting Tactics and Strategy I

This course is a study of the basic concepts involved in firefighting, including the behavior, firefighting fundamentals and principles of extinguishment, the proper role for a utilization of various fire companies, and pre-planning fire problems.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1826 - Incident Management

This course contrasts the major forms of Incident Management/Incident Command Systems. It illuminates these differences and offers a fresh perspective on the concepts on which these systems are founded in order to make them more accessible and user-friendly. It bridges the gap between their theoretical and academic foundations and their real-world applications, and makes them more applicable to the professional's daily needs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1880 - Public Policy in Emergency Management

This course provides the student specialized knowledge and skills necessary to develop public policy related to emergency management, providing public policy leadership in the area of emergency management as part of the larger responsibility to protect the general welfare of the people. Topics of discussion include: government disaster programs; agency participation, policy design and implementation, and administrative processes involved in managing disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1881 - Emergency Management Leadership

This course provides the student with the knowledge and skills necessary for effective interpersonal relationships, including conflict management and the use of power and influence as they apply to emergency administration and leadership. It addresses the budget process and related administrative duties of an emergency management program manager.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 1890 - Emergency Management Principles for Tourism and Hospitality Industry

This course analyzes emergency management functions and responsibilities within the tourism and hospitality industry. Particular emphasis is placed in the areas of administration, organization, communications, and human relations. Students will learn how historical mistakes can influence human response to disaster situations, and some of the current legal and human challenges posed when dealing with disasters.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2111 - Fire Chemistry

This course is a study of basic definitions of the chemical characteristics applicable to the chemistry of fire; it also discusses combustion, the principles of fire, heat measurement, heat transfer, and heat energy sources (sources of ignition). Emphasis is on emergency situations and the most favorable methods of handling firefighting and control.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2521 - Construction Documents and Plans Review

This curriculum provides the student knowledge of how to assimilate information contained in working drawings and specifications as they relate to the fire inspector. The curriculum includes how to interpret conventional graphic communications. Accepted standards and conventions are introduced. Symbols, abbreviations, principles of technical projection, as well as, a review of construction arithmetic and geometry are included.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2610 - Fire Cause and Origin

Study of cause and origin of fires with emphasis on fire inspector's or fire officer's role in the investigation process. The course deals with determination of fire cause and origin, collection of evidence, and investigator's preparation for trial.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2706 - Fire Service Public Information Officer

This course prepares the student to serve effectively as an organizational spokesperson, according to the current practices in the profession of public relations in relationship to the Fire Service. Particular emphasis will be placed on case studies in crisis communications and the role of the Public Information Officer (PIO) in the Incident Command System (ICS).

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2720 - Company Officer

Designed to assist fire officers in solving the varied problems and situations they will be required to manage effectively in today's ever changing fire service. The curriculum includes a review of fire department organization and administration, management theory, leadership, communication, motivation, and small group dynamics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2741 - Fire Service Course Design

This course covers the principles of effective curriculum design. It stresses the principles of adult learning and student-centered learning. Designing courses and units that address learning, performance, and behavioral objectives is the program goal. The curriculum is intended to facilitate the development of nationally applicable performance standards for uniformed fire service personnel. It is the goal of the Florida State Fire College and the Bureau of Fire Standards and Training to provide a comprehensive program that, when completed, the prospective instructor will have the knowledge and skills to present and or develop a training curriculum.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2770 - Ethical and Legal issues in Fire Service

This course teaches the federal, state, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of relevant court cases. It also includes labor relations, human rights and diversity, conflicts of interest and frameworks for ethical decision-making.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2780 - Fire Department Administration

The course is designed to present the principles of management theory, and its application in the fire service. The course is intended for officers whose area of responsibility encompasses long and short range planning, budgeting and administration.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2811 - Firefighting Tactics and Strategy II

This course is a study of the principles utilized on the fire ground for maximum manpower and equipment utilization; fire ground administration starting with a small fire on up through major conflagrations. Emphasis will be on developing thinking skills in relation to crises.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

FFP 1810 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2820 - Emergency Preparedness

This course teaches all aspects of emergency preparedness and planning related to natural and man-made disasters, and basic principles of emergency management. Planning concepts and the planning process will be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2823 - Technical Applications in Emergency Management

This course explores issues and problems associated with the use of technology in emergency management. It examines strategies to overcome these issues and problems. Some of the subjects treated are use of the Internet, spatial analysis applications in vulnerability analysis, decision support systems, and emerging technologies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2834 - Societal Issues in Disaster Management

This course examines human response to disaster events, including political and economic factors influencing vulnerability. It examines how individuals and institutions make decisions at all levels of disaster response, it is an introduction to current research pertaining to the sociological aspects of disaster, and it will provide increased awareness of the potential and difficulties in using social science research as a basis for modifying public policy.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2841 - Contingency Planning for the Private Sector

This course is designed to assist students in developing effective public sector plans by using the National Incident Management System and the Incident Command System templates. The curriculum includes case studies and development procedures for private sector logistics management and employee support planning.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FFP 2905 - Independent Study: Emergency Management

A defined independent study which is pursued under direct supervision of a faculty member and recorded through departmental procedures. Designed to provide an in depth exploration of a special or advanced topic in the Emergency Management field. Activities include targeted readings and research, as well as a final project or portfolio. Departmental approval is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

FRE 1120 - French I

Pronunciation and grammatical structures of French, with emphasis upon balanced development of all four skills – listening, speaking, reading, and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

FRE 1121 - French II

Pronunciation and grammatical structures of French, with emphasis upon balanced development of all four skills – listening, speaking, reading and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

FRE 1120 or an equivalent course with a grade of “C” or better.

Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEA 1000 - World Regional Geography

The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

GEB 1011 - Introduction to Business

Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEB 1214 - Business and Supervision Terminology

This course is designed for students to achieve mastery of the special vocabulary, jargon, and concept terminology associated with general business and supervision in the modern workplace. Students will apply the terms in common workplace scenarios and hypothetical situations, as well as in standard written documents and assignments.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed)

GEB 1940 - Internship - Business

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit

report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
permission of the instructor

Note:
This course may be taken up to two times for credit.
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

GEB 2430 - Business Ethics

This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

GEO 1200C - Physical Geography

This course investigates the relationship between the natural environment and humankind, including weather, climate, soils, biogeography and land forms. The study of the physical Earth is treated so that the student gains an appreciation of man’s place in the environment.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

GIS 1040C - Introduction to Geographic Information Systems

This course will provide students with an introduction to Geographic Information Systems (GIS). Lectures will include: what is GIS, GIS applications, fundamentals such as map projections, vector versus raster data models, creating and maintaining geographic databases, spatial analysis and modeling, cartography and map production. Lab sessions will include the hands on use of the ArcGIS software. Students will receive a 180-day version of the software with their textbook that they can use at home to complete assignments.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
moderate familiarity with the Windows operating system, preferably XP.

GLY 2010C - Principles of Geology I

Survey of the composition and dynamic processes of the solid Earth. Topics include planetary geology, mineralogy and petrology, volcanism, surface environments and processes (ocean floor, coastlines, rivers, karst, glaciers, deserts), seismology, surface deformation, Earth’s interior, plate tectonics, and mountain formation. Laboratory exercises in mineral and rock identification, interpretation of geological landforms using topographic maps, earthquakes, and basic field methods. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

GLY 2100C - Principles of Geology II

Survey of the physical and biological history of the Earth. Course is divided into two parts. First is a review of common minerals, rocks, and fossils; the use of stratified sedimentary rocks to reconstruct past environments and climates; and the theory of plate tectonics. Second is an overview of the origin and early evolution of the Earth, tectonic formation of continents and oceans, and life through time (first appearance of life, early life in the ocean, Age of Dinosaurs, the Great Ice Age, and the appearance of the first humans). Field and laboratory work in mineral, rock, and fossil identification, description of stratigraphic sections in the field, and geologic map construction and interpretation. Local or regional fieldtrips offered.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

GLY 2601C - Introduction to Paleontology

This course is a survey of prehistoric life. Topics include fossilization, systematics, evolution, ecology, extinction, and the geological history of life. Laboratory work covers the anatomy, classification, and ecology of major phyla of both extinct and extant organisms, including monerans, protists, plant, macroinvertebrates, and vertebrate animals. The course involves local and regional fossil collecting trips. This course may be used as a General Education science course for any A.S program, and may be used as a category III General Education science course for the A.A. degree.

Credit Hour(s): 4 Credit Hours When Offered: (Fall or Spring)

GRA 1151C - Illustration I

A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

GRA 1152C - Illustration II

An advanced graphic design course building upon the skills covered in Illustration I; the course includes increased challenges relating to conceptual skills and multi-software integration relating to typical print-based design problems. Access to an appropriate high quality digital camera is required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
GRA 1151C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2140C - Multimedia I

An advanced course covering the development of multimedia projects incorporating a variety of digital media elements. Students will learn an industry standard digital video editing application and the aesthetic and technical considerations involved in content acquisition. Access to a miniDV camcorder suggested.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ART 2602C , GRA 1151C and PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2141C - Multimedia II

An advanced course covering principles of design and information architecture surrounding interactive multimedia presentations. Students will learn an industry standard interactive DVD media authoring software application. Students will produce a finished interactive DVD.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
GRA 2140C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2142C - Web Design I

An introductory course covering the development of websites using an industry standard web development software application. Students will study the aesthetics and technical considerations involved with information architecture and basic interface design.

Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

GRA 2143C - Web Design II

An advanced course where students will study an industry standard website development software application. Students will learn advanced techniques and aesthetics involved in information architecture and advanced interface design. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
GRA 2142C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2173C - Projects in Graphic Design

An advanced course utilizing the student's full complement of skills and abilities. The student will work under the advisement of a faculty member to produce a large multifaceted project of their own design.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ART 2602C , GRA 1151C , GRA 2190C and PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2190C - Graphic Design I

An intermediate Graphic Design course that focuses on using an industry standard page layout software application. Students will be exposed to the ideas and aesthetics involved in the production of print publications. Access to a high quality digital camera required. It is recommended that students take PGY 1801C at the same time or prior to taking this course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

GRA 2191C - Graphic Design II

An advanced Graphic Design course covering the aesthetics and challenges associated with producing complex multi-page printed communications. Access to an appropriate high quality digital camera required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
GRA 1151C , GRA 2190C , PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

GRA 2900 - Independent Study – Graphic Art

This course covers the practical treatment of Graphics/Printing Technology. Emphasis is on individual work projects.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
GRA 1151C or PGY 1801C

GRA 2905 - Independent Study – Graphic Design

The student will initiate independent computer related work, utilizing various software and hardware. The course may be taken four times for credit.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C or PGY 1801C

Note:

▲Technology-Across-the-Curriculum Course.

GRA 2941A - Internship, Graphic Design

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

GRA 1151C , GRA 2190C , PGY 1801C and permission of the instructor.

GRA 2950C - Advanced Graphic Projects

An advanced Graphic Design course addressing common Graphic Design problems. Students will explore advanced software application functionality and creative, aesthetic, and portfolio development. Access to a high quality digital camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ART 2602C , ART 2603C , GRA 1151C , GRA 2190C , PGY 1801C .

Note:

▲Technology-Across-the-Curriculum Course.

HFT 1000 - Introduction to Hospitality Management

This course is an overview of the hospitality industry, and the many different segments of the hospitality and tourism segments are discussed. Scope, size and industry trends are examined. Theories, examples and industry case studies are used to provide students with examples of problem solving tools of management. Basic industry terminology and management concepts are studied. The important role of service is stressed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HIM 1000 - Health Information and Delivery Systems

Orientation to medical records history and professional associations. Confidentiality, filing, retrieving, indexing, numbering, storage and content of the medical record is also discussed. The course includes job search skills and professional job performance.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 1012 - Health Care and Legal Compliance

In-depth study of federal, state, local laws governing preparation, and use of the healthcare record in the healthcare delivery system.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 1273C - Medical Billing

Introduction to computerized medical billing and reimbursement through various payors. Correct completion of HCFA 1500 forms will be emphasized.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):

HIM 1282 , knowledge of basic computer and keyboarding skills.

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 1282 - Basic Coding for Medical Records

Development of nomenclature and classification systems and an introduction to ICD-10-CM and CPT coding.

Credit Hour(s): 4 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

HSC 1531 , BSC 1080 , HIM 1432

Corequisite(s):

HIM 1000

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 1432 - Pathopharmacology

Introduction to the nature, cause, and treatment of disease entities and the body's defense mechanisms. Commonly used drugs will also be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 1442 - Pharmacology for HIM Professionals

Pharmacology for HIM Professionals provides an overview of the pronunciation, spelling, actions and side effects of the most commonly prescribed medications. The course will examine pharmacological terms, abbreviations, and symbols used by healthcare providers to write prescriptions.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

BSC 1080 , HSC 1531 .

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2253 - CPT Coding - Part 1

Instruction and practice in basic CPT coding conventions, principles of classifying physician services using current procedural terminology (CPT-4), APC, and auditing procedures. Ethical standards of practice will be analyzed.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

HSC 1531 , BSC 1080 , HIM 1432 , knowledge of basic computer & keyboarding skills.

Prereq/Corequisites:

HIM 2724

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

(Previously listed as HIM1253)

HIM 2272 - Healthcare Reimbursement

Emphasis on billing regulations for the State of Florida. Course content includes LMRPS, Workers' Compensation laws, Florida Medicare, and claims for automobile accident injuries.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):

Knowledge of basic computer & keyboarding skills

Prereq/Corequisites:
HIM 2729

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM1275)

HIM 2283C - Advanced Coding for Medical Records

Advanced instruction in coding/ICD-10-CM diagnoses, and procedures in ICD-10-CM and CPT both manually and automated. Provides sequencing guidelines and rules and regulations in both the hospital and physician office setting. Introduces the student to Ambulatory Payment Classifications (APCs) and Diagnostic Related Groups (DRGs).

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Summer) Prerequisite(s):
BSC 1080 , HIM 1000 , HIM 1282 , and HIM 1432 .

Note:
*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2291 - CPT Coding Part 2

This is an advanced course in ICD, CPT and HCPCS coding systems. Students will learn guidelines and applications to more complex case studies and health records according to current ethical standards of practice, inpatient and outpatient prospective payment systems, encoding software and RBRVs.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
HSC 1531 , HIM 2724 , BSC 1080 , HIM 1432 , HIM 2253 , knowledge of basic computer & keyboarding skills.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM2254)

HIM 2724 - ICD Coding Part 1

This course provides a foundation using ICD-10-CM/PCS coding conventions, rules, methodology and sequencing, data sets, documentation requirements, and coding resources.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
HSC 1531 , BSC 1080 , HIM 1432

Prereq/Corequisites:
HIM 1000

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIMXXX1)

HIM 2729 - ICD Coding Part 2

This course focuses on assigning appropriate ICD, DRG, and Level II (HCPCS) codes to a wide range of original source medical documents. This course increases the quality of code selection by applying the decision process in problem solving using well-defined medical record review methods and guidelines. Ethical practices will be discussed.

Credit Hour(s): 3 Credit Hours When Offered: (Spring, Summer) Prerequisite(s):
BSC 1080 , HIM 2724 , HIM 1432 , HSC 1531 , knowledge of basic computer & keyboarding skills.

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
(Previously listed as HIM2721)

HIM 2815C - Professional Practice Experience

Working in a simulated, online environment, students will endeavor to code and bill using nationally recognized, American Health Information an Management Association (AHIMA) simulation software.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
HIM 2729 , HSC 1531 , BSC 1080 , HIM 1432 , knowledge of basic computer & keyboarding skills

Corequisite(s):
HIM 2291

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HIM 2931C - Special Topics in Health Information Technology

This course is a review of skills and work processes to support classification and coding to become nationally certified in-field. Effective test-taking strategies for certification exams and employability skills will be discussed.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Summer) Prerequisite(s):
HIM 2291 , HIM 2729 , HSC 1531 , BSC 1080 , HIM 1432 , knowledge of basic computer & keyboarding skills.

Prereq/Corequisites:
HIM 2272

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

HLP 1081 - Wellness: Practice and Theory

A course designed to promote wellness through assessment, instruction and fitness programs which, if applied, will enable the individual to achieve and/or maintain a high quality of health and fitness throughout life. Based on assessment test results a physical examination by a physician may be recommended.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HSA 1100 - Introduction to Health Care

Introduction to the healthcare delivery system and health related occupations. Also safety, security, and infection control procedures will be discussed.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer)

HSC 1100 - Health Education

A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1400 - First Aid

Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured oral poisoning and other medical emergencies.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

HSC 1531 - Medical Terminology

An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUM 1020 - Humanities – Introduction

A chronological survey of techniques and forms related to art, dance, film, literature, music, philosophy, religion and theater. Art works and selected readings are utilized as much as possible. The course includes Writing-Across-the-Curriculum and Speaking-Across-the-Curriculum. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 1905A - Independent Study – Arts and Humanities

A defined independent study which is pursued under supervision of a faculty directing teacher and recorded through departmental procedures. Designed to permit a student to pursue nonscheduled academic and laboratory work which may be of a specialized or advanced nature and not available through classes or courses available on a college schedule. Departmental approval is required. Placement test is required. The course includes Writing-Across-The-Curriculum. If used to meet Gordon Rule requirements for general education, a minimum grade of "C" is also required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
approval from department chair, a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

HUM 2250 - Humanities – A Contemporary Perspective

This course is an integrated study of the artistic, cultural, philosophic, religious, social, and technological influences that shape modern western cultures in the modern era. The focus will begin with the 20th century and follow, chronologically, the issues of the modern era. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

HUM 2700 - Humanities – Foreign Study

A variable humanities content course designed to allow students first-hand learning experiences outside the United States. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is

required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

HUM 2920 - Humanities Colloquium

Humanities Colloquium is a lab designed to introduce students to critical visual and listening skills to become an intelligent arts consumer. Initial lecture sessions are devoted to discussions of the elements of analysis of art works, music pieces, theater performances, and dance presentations. Students will be required to attend selected NWFSC Visual and Performance Arts presentations and to write a short critical review of each. Topics may vary.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
placement test may be required.

HUM 2930 - Humanities – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

HUN 2201 - Nutrition

The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
▲Technology-Across-the-Curriculum Course.

IDS 2220 - Issues in Science and Religion

This course will explore and relate scientific and religious conceptions of the natural world. Survey of major scientific discoveries and theories that both challenge and inform religious belief (including Big Bang cosmology, geologic time, evolutionary biology and paleontology, and Earth systems/global change). Survey of the historic role of religion and religious cosmologies in the rise of science, types of religious experience, concepts of God and divine action, the idea of the sacred as the ground for meaning in nature, natural theology and theology of nature, intelligent design, varieties of creationism, and various metascientific proposals (Anthropic Principle, Gaia Hypothesis, Biophylia, Deep Ecology). Emphasis is placed on integrating and harmonizing scientific and religious understandings to develop a more meaningful and informative, contemporary worldview.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ISC 1003 - Natural Disasters – Causes, Consequences, Human Response

This interdisciplinary course investigates natural catastrophic events, such as earthquakes, volcanic eruptions, tsunamis, hurricanes and floods. This class will use an environmental studies approach to examine how modern society exacerbates the damage caused by these natural phenomena and methods to mitigate human suffering. The student will gain an appreciation of humankind’s relationship to the natural environment.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

ISC 2210C - Integrated Science and Math

This course offers students the opportunity to see and apply fundamental ideas in science and mathematics relative to life on Earth from a qualitative perspective. Students will read about and research contemporary topics from the physical sciences, life sciences, mathematics and engineering and participate in problem solving activities which illustrate and apply the concepts in laboratory and field trip settings.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
instructor permission required.

Note:
This course may be taken up to two times for credit.

ISS 1905 - Independent Study – Social Science

Directed study and individual projects designed to meet the needs of students interested in a specialized area of the social sciences for which present course availability is limited.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
This course may be taken up to four times for credit.

LIN 1670 - Writing and Grammar

The course includes practice in writing short essays and encompasses a comprehensive review of grammar and mechanics. This course is strongly recommended for students who have completed Developmental Writing, those who want a preparation for Composition, or those who score 103-116 on the PERT.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
A passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a minimum grade of "C", or exemption from placement testing.

LIS 1001 - Library Skills

A course creating learning situations in which individual students can become effective independent users of Learning Resources facilities. This course is recommended for all degree-seeking students in their first term.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

LIS 2004 - Introduction to Internet Research

Introduction to Internet Research is a one-credit hour course offered by the Florida Public Community College system. This course is delivered via the World Wide Web and Internet e-mail. The course focuses on methods of accessing information resources available through the Internet. Students will learn to design search strategies, retrieve, evaluate, and cite Internet resources. The World Wide Web, e-mail, discussion groups, chat, FTP, Gopher, and Telnet are some of the topics covered.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
a full service Internet account, including an electronic mail address from an Internet Service Provider (ISP), or access through a corporate or educational institution prior to beginning the course.

Note:
▲Technology-Across-the-Curriculum Course.

LIT 2090 - Contemporary Literature

Studies in contemporary literature, focusing on comments on modern man. May be used as Humanities credit. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

ENC 1101 .

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2100 - World Literature I

Designed to encourage students to know and appreciate the great literature that helps to mold their thinking and everyday living. Includes, without regard to national origin, those masterpieces of world literature, from antiquity through the Renaissance, that reflect cultural and intellectual heritage. May be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet the Gordon Rule requirements for general education, a minimum grade of "C" is required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ENC 1101 .

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2120 - World Literature II

Designed to encourage students to know and appreciate the great literature that helps to mold their thinking and everyday living. Includes, without regard to national origin, those masterpieces of world literature, from the Renaissance to the present, that reflect cultural and intellectual heritage. May be used as a humanities credit. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
ENC 1101 . (Note: LIT 2100 is not a prerequisite for this course)

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2335 - Introduction to Children's and Adolescent Literature

Designed to explore the range and diversity of the children's literary canon, surveying the historical development of children's and adolescent literature (pre-school to eighth grade) and the construction of socio-cultural influences. While the focus is predominantly on classic works from the tradition of American and British fiction, poetry, folklore and fairy tales, drama, and picture books, the course nonetheless addresses multi-cultural issues and texts in order to broaden the cultural vision provided by the literary study. This course will be a General Education elective, but will not meet the Humanities or English General Education requirements. Course has international/diversity focus for Teacher Education program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ENC 1101 .

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

LIT 2603 - Literature of War in the 20th Century

Designed to investigate the historical, psychological, and universal issues that face societies in times of war, through analysis of a range of literary genre and texts, including fiction, poetry, drama, letters, and memoirs focusing on wars of the modern era. The approach is global, but concentrates heavily on the war experiences of the United States. This course will be a General Education elective, but will not meet Humanities or English General Education requirements. Course has International/Diversity focus for Teacher Ed program common prerequisites.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ENC 1101 .

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

MAC 1105 - College Algebra

This is a function-based college algebra course which includes the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better or appropriate placement score.

MAC 1105L - College Algebra Lab

A hands-on lab designed to improve students’ success rates in the College Algebra course. Students will work on all topics covered in MAC 1105 . Emphasis will be placed on strengthening algebraic skills through a variety of nontraditional approaches to learning, including small group collaboration and computer-based interactive learning. Meets specific general education requirements. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
MAT 1033A or equivalent with a “C” or better, or appropriate placement scores

Corequisite(s):
MAC 1105 .

MAC 1114 - Trigonometry

This is the second course in a Pre-calculus sequence which includes the following topics: definitions, graphs, and properties of the six trigonometric functions and their inverses; trigonometric identities; solving trigonometric equations; solving right and oblique triangles and applications; complex numbers; vectors; and the polar coordinate system. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAC 1140 with a grade of “C” or better or equivalent; or appropriate placement score. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

MAC 1140 - Pre-Calculus Algebra

This is the first course in a two-course Pre-calculus sequence which includes the following: equations and inequalities; linear, quadratic, logarithmic and exponential functions and relations; systems of equations; matrices and determinants, mathematical proof techniques, including mathematical induction; binomial theorem; sequences and series; and applications of algebraic techniques in the real world. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAC 1105 with a grade of “C” or better, or equivalent; or appropriate placement score.

MAC 1147 - Pre-Calculus Algebra/Trigonometry

This course reviews algebra and trigonometry. Topics include the following: polynomial, rational, exponential, logarithmic, and

trigonometric functions; inverse functions; trigonometric identities and equations; solutions of triangles; vector algebra; topics from analytical geometry; sequences; series; mathematical induction; and the binomial theorem. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
appropriate placement score and high school trigonometry with a "B" or better; or special permission of the Mathematics Department.

MAC 2233 - Business Calculus

This is a calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but, in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Completion of MAC 1140 with a grade of "C" or better; or completion of MAC 1105 with a grade of "C" or better, and a "C" or better in another Gordon Rule Mathematics course; or appropriate placement score.

MAC 2311 - Calculus I

This is the first course in a three-course sequence. The course covers the following: limits and continuity, rules of differentiation, chain rule, derivatives of trigonometric, inverse trigonometric, logarithmic, and exponential functions, applications of derivatives to curve sketching, L'Hopital's Rule, indeterminate forms, and maxima/minima problems, mean value theorem, Rolle's theorem, definite and indefinite integrals, Fundamental Theorem of Integral Calculus, area, and applications of integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAC 1140 and MAC 1114 with a grade of "C" or better or equivalent; or appropriate placement score.

MAC 2312 - Calculus II

This is the second course in a three-course sequence. The course covers the following: techniques for finding areas, volumes, arc lengths and surface areas, methods of integration, including integration by parts, trigonometric substitution, and partial fractions, improper integrals, conic sections, graphing and area in polar coordinates, infinite sequences and series, tests for absolute and conditional convergence of series, and power series. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAC 2311 with a grade of "C" or better or equivalent.

MAC 2313 - Calculus III

This is the third course in a three-course sequence. The course includes the following topics: vectors, lines and planes in space, quadric surfaces, vector-valued functions and motion in space, functions of two or more variables, partial derivatives, gradients, directional derivatives, and their applications, multiple integrals in rectangular, cylindrical, and spherical coordinates, and their applications, line integrals, and surface integrals. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAC 2312 with a grade of "C" or better or equivalent.

MAD 2104 - Introduction to Discrete Mathematics

This course is designed for those students who are majoring in computer science, mathematics, engineering, mathematics education, and other highly technical fields. Topics include formal logic, set theory, combinatorics, mathematical induction, relations

and functions, recursion, and graph theory. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
a grade of “C” or better in MAC 1140 or a course in programming.

MAN 2021 - Management

Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAN 2300 - Personnel Management

An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAP 2302 - Differential Equations

This course provides an introduction to ordinary differential equations with an emphasis on first and second order linear equations and applications. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
either completion of MAC 2313 with a "C" or better or concurrent enrollment in MAC 2313 . Equivalent courses from other institutions may be used to meet the prerequisite.

MAR 2011 - Introduction to Marketing

An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MAS 2103 - Linear Algebra

This is an introductory course in Linear Algebra intended to give students enough insight to enable successful pursuit of more abstract mathematics courses. This course includes the study of matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, eigenvalues, and eigenvectors. Exercises using MATLAB will be required. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
completion of MAC 2312 with a grade or “C” or better, or equivalent.

MAT 1033A - Intermediate Algebra

This is an intermediate algebra course designed to prepare students for general education mathematics/statistics courses. This course emphasizes concepts, techniques, and applications of the following major topics; factoring, algebraic functions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, two-variable linear equations/inequalities and their graphs, systems of linear equations and inequalities, and an introduction to functions. This course may be used as an elective, but does not meet Gordon Rule requirements for B.A.S., A.A., or A.S. transfer students.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring mathematics achievement, successful completion of any required

developmental mathematics coursework with a grade of "C" or better, or exemption from placement testing.

MAT 1033L - Intermediate Algebra Laboratory

A hands-on lab designed to improve students' chance for success in the MAT1033A Intermediate Algebra course. Students will work to strengthen skills required to master the topics covered in Intermediate Algebra. The topics include, but are not limited to, factoring, algebraic functions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, two-variable linear equations/inequalities and their graphs, systems of linear equations and inequalities, and an introduction to functions

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
MAT 0028 or equivalent with a grade of "C" or better or a passing score on the standardized placement test measuring mathematics achievement, successful completion of any required developmental mathematics coursework with a grade of "C" or better, or exemption from placement testing.

Corequisite(s):
MAT 1033A

MAT 2905 - Independent Study – Mathematics

This course is designed to allow a student to complete part of a course taken elsewhere and thereby complete general education requirements or to go deeper into special areas of interest.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
passing score on placement exam.

MCB 2010C - Microbiology, Allied Health

This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
CHM 1020 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C .

MET 1010 - Introduction to Meteorology

Structure of the atmosphere, weather processes, systems and phenomena; climate and climatic change, and economic impact of weather.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

MGF 1106 - Mathematics for Liberal Arts I

This course is designed for those students requiring only general education mathematics courses. It includes systematic counting, probability, statistics, history of mathematics, geometry, sets, and logic. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MGF 1107 - Mathematics for Liberal Arts II

This course is designed for those students requiring only general education mathematics courses. Topics include numeration and mathematical systems, number theory, linear and exponential growth, history of mathematics, voting techniques, graph theory, and consumer mathematics. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or higher mathematics course with a grade of “C” or better or equivalent or appropriate placement score.

MKA 2021 - Professional Selling

Selling, correct attitudes and personal attributes for dealing with the public on a business or professional basis.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MKA 2041 - Retail Management

This course covers retail store management, location, buying merchandise, control policies, services, pricing, expenses, profits, training and supervision of retail sales forces, and administrative problems. Also includes a variety of current perspectives in retailing management.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MKA 2511 - Introduction to Advertising

Advertising as a marketing tool, its planning, creation, and use. A survey of copy writing, layout, and media (newspapers, magazines, radio, television, films, etc.)

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1016 - ISO 9000 - Industrial Management

ISO 9000 is the international standard for Quality Management Systems that promote efficiency, competitiveness, consistency, and international recognition in virtually all types of organizations. This course prepares individuals to guide an organization through the steps necessary for ISO 9000 registration and subsequent audits and triennial re-registration, or to be effective participants (employees of any rank) in an organization already registered to ISO 9000.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1161 - Customer Service

Designed to build and maintain the critical skills necessary to be a dynamic and successful professional. Students and front-line individuals who work with customers every day will develop strategies to create positive customer relationships. This course provides a practical approach to the thorny issues of customer dissatisfaction and will enable managers to keep service personnel focused on the organization’s goals and objectives.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1345 - Supervision I

The course presents the functions of a personnel manager, philosophy of general management, organizational structure, employer socioeconomic climate and career information. Included also are job descriptions and specifications, recruiting practices, applications, resumes, interviewing, placement, performance appraisals, wage and salary administration and other related topics.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 1346 - Supervision II

The course presents a continuing study of the functions of a personnel manager, philosophy of general management, employee socioeconomic climate and other information. Included are orientation, training, labor unions, safety, health and other related

topics.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2100 - Organizational Behavior

Designed to help students develop an understanding of how they may be motivated to work together in greater harmony in all kinds of organizations. The basis of human motivation and how it is influenced by leadership, the organization itself, and the social environment in which the organization exists.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MNA 2141 - Leadership Techniques

This interdisciplinary course addresses leadership in a group setting and focuses on leadership development through discussion, readings, group and individual projects and other applied activities.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

MSL 1001 - Foundations of Officership

This course examines the unique duties and responsibilities of officers, organization and role of the Army, reviews skills pertaining to fitness and communication, and analyzes Army values and expected ethical behavior. Requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 1 Credit Hour When Offered: (Fall)

MSL 1002 - Basic Leadership

This course presents fundamental leadership concepts and doctrine, the practice of basic skills that underlie effective problem solving, and examines the officer experience. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 1 Credit Hour When Offered: (Spring)

MSL 2101 - Individual Leadership Studies

This course develops knowledge of self-confidence and individual leadership skills. It develops problem solving and critical thinking skills, as well as how to apply communication, feedback, and conflict resolution skills. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 2 Credit Hours When Offered: (Fall)

MSL 2102 - Leadership and Teamwork

This course focuses on self-development guided by knowledge of self and group processes, challenges current beliefs, knowledge, and skills. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 2 Credit Hours When Offered: (Spring)

MSL 2905 - Independent Study – Military Science and Leadership

Directed study and/or individual project designed to meet the needs and interests of students in ROTC. This course develops knowledge of self, self-confidence, and individual leadership skills. It develops problem and critical thinking skills, as well as how to apply communication, feedback, and conflict resolution skills. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):

ROTC sophomore standing and departmental approval.

Note:

This course may be taken up to four times for credit.

MTB 1103 - Business Mathematics

This course presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include the following: base, rate and percentage, trade and cash discounts, wage and salary administration, insurance (fire and automobile), depreciation and business profits, distribution of corporate dividends, simple interest and bank discount, and buying and selling of corporation bonds and stocks.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

completion of MAT 0028 with a “C” or better or satisfactory test scores.

Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

MTG 2206 - College Geometry

This course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve the following: line segments, angles, triangles, polygons, parallel and perpendicular lines, slopes of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems. Lines and other geometric figures are graphed in the rectangular coordinate system. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

completion of MAC 1105 or equivalent with a “C” or better.

MUH 2930 - Music Humanities – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MUL 1010 - Music Appreciation

Designed to develop a more intelligent understanding of and appreciation of music. By methodically surveying the main periods of Western Art Music from the Medieval Period through present day, this class will bring about an awareness of music as a vital source in human life, and will aid in developing positive attitudes toward culture and the fine arts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. If used to meet AA Gordon Rule requirements for general education, a minimum grade of "C" is required. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the- Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-

Curriculum requirement.

MUM 1620 - Audio and Acoustic Fundamentals

Audio and Acoustic Fundamentals explores the basics of audio systems and equipment and the acoustical environment in which they are used. Emphasis is placed on equipment terminology, function and acoustical listening. The two basic fundamentals are summed together to begin laying the basic foundation required to operate audio and recording equipment.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

MUM 2300 - Introduction to the Music Industry

This course is an introduction to the history, principles, and practices of the music industry. Topics will include music publishing, copyright, distribution, industry organization, producing, and general business functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

MUM 2600 - Recording Techniques I

This course is designed as an introduction to basic audio engineering and studio practices. Listening exercises, phychoacoustics, microphone characteristics, and studio etiquette will be studied. In addition the student will study techniques and practices and procedures of multi-track recording, acoustical balancing, editing, and over dubbing in a variety of situations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MUM 1620 .

MUM 2600L - Recording Lab

This course is designed to provide students with "hands on" experience for the instructional material in MUM 1620 , MUM 2600 , MUM 2601 , and MUM 2604 . This lab course is required for each of the above listed courses.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
Student proficiency in Windows operating system currently in use in the Music Theory Lab.

Note:
This course may be taken up to four times for credit.

MUM 2601 - Recording Techniques II

This course explores advanced multi-track recording skills and audio production techniques, edits, use of outboard equipment and live multi-track recording.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MUM 1620 , MUM 2600 .

MUM 2604 - Multi-Track Mixdown (Post Production)

This course explores the application of signal processing equipment as it relates to multi-track master mixdowns. In addition, software and hardware application of mixdown is applied to post-production practices.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
MUM 1620 , MUM 2600 , MUM 2601 .

MUN 1000 - Summer Ensemble Workshop

An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop will be expected to participate in several scheduled performances.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):

experience in high school or a desire to learn.

MUN 1001 - Summer Ensemble Workshop II

An ensemble workshop and performance to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop II will be expected to participate in several scheduled performances.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
MUN 1000 .

MUN 1002 - Summer Ensemble Workshop III

An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical physical styles will be studied. Students participating in Summer Ensemble Workshop will be expected to participate in several scheduled performances.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
MUN 1000 , MUN 1001 .

MUN 1310 - Women's Ensemble

A music organization open through auditions to any student having experience in reading music. A variety of musical styles will be studied and performed. Students electing NWFSC Chorus will be expected to participate in scheduled performances.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
Experience in high school choruses or choirs.

Note:
This course may be taken up to four times for credit.

MUN 1340A - NWFSC Show Choir I

A study of the fundamental techniques and principles of integrating dance, voice, music and acting into a performance show choir. Training in voice, jazz movement, character interpretation and personality presentation is covered. Membership is open to all part-time or full-time students on a credit or audit basis. All music majors and performance majors must participate. The show choir appears in public performances at frequent intervals throughout the year.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
Audition, consent of department, music or performance minor.

Note:
This course may be taken up to four times for credit.

MUN 1360 - Madrigal Singers I

Auditioned a cappella ensemble teaching choral styles that range from the Renaissance madrigal to present day, such as vocal jazz, spirituals and contemporary choral works. This course if for the "first year" student.

Credit Hour(s): 1 Credit Hour When Offered: (Offered Fall, Spring) Prerequisite(s):
Audition based on vocal quality, musicianship and sight reading ability.

Note:
This course may be taken up to four times for credit.

MUN 1390 - Symphony Chorale I

A music organization open through auditions to any student. The Symphonic Chorus will study and perform literature for the large sized chorus.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):

audition or permission of instructor.

Note:
This course may be taken up to four times for credit.

MUN 1421 - Flute Ensemble

The study and performance of flute ensemble and flute choir music in a musical group.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
audition or instructor recommendation only.

Note:
This course may be taken up to four times for credit.

MUN 1710A - Rock and Jazz Ensembles I

Music performing organization open to any student who wants to develop his or her performance repertoire. Laboratory studies include techniques of performing music, literature, practices, styles and media applicable to designated organized ensemble.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
Some experience in high school bands, etc.

Note:
This course may be taken up to four times for credit.

MUN 1711 - Jazz Workshop

The study and performance of jazz music in the context of the small ensemble. This will be accomplished through the performance of both stock arrangements and student arrangements. Instrumentation: 5 wind, 4 rhythm, voice.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
Strong music performance background with basic knowledge of the jazz idiom.

Note:
This course may be taken up to four times for credit.

MUN 1720A - Rock and Jazz Ensembles II

Music performing organization open to any student who wants to develop his/her performance repertoire. Laboratory studies include techniques of performing music, literature, practices, styles and media applicable to designated organized ensemble.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
experience in high school bands.

Note:
This course may be taken up to four times for credit.

MUN 2211 - NWFSC Symphony Orchestra II

A music organization providing an outlet and learning experience to study and perform standard orchestra literature, to improve individual instrumental skills, and to sharpen ensemble techniques. The Symphony occasionally performs with guest artists, choral groups and theater ensembles.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Note:
This course may be taken up to four times for credit.

MUN 2361 - Madrigal Singers II

Auditioned a cappella ensemble teaching choral styles that range from the Renaissance madrigal to present day, such as vocal jazz, spirituals and contemporary choral works. This course is for the "second year" student.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
MUN 1360 .

Note:
This course may be taken up to four times for credit.

MUN 2371 - NWFSC Show Choir II

A study of the fundamental techniques and principles of integrating dance, voice, music and acting into a performance show choir. Training in voice, jazz movement, character interpretation and personality presentation is covered. Membership is open to all part-time or full-time students on a credit or audit basis. All music majors and performance majors must participate. The show choir appears in public performances at frequent intervals throughout the year.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
MUN 1340A .

Note:
This course may be taken up to four times for credit.

MUN 2392 - Symphony Chorale II

A music organization open through auditions to any student. The Symphony Chorus will study and perform literature for the large sized chorus.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
MUN 1390 .

Note:
This course may be taken up to four times for credit.

MUS 1905A - Independent Study – Music

A defined independent study which is pursued under supervision of a faculty directing teacher and recorded through departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized or advanced nature and not available through classes or courses available on a college schedule. Departmental approval required. Placement test is required. The course includes Writing-Across-The-Curriculum. If used to meet Gordon Rule requirements for general education, a minimum grade of “C” is also required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
Approval from department chair, a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

MUS 2930 - Music – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
*This course may be taken up to four times for credit.

MUT 1001 - Fundamentals of Music

A pre-theory course for the music major, non-music major, or for the elementary education major.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring)

MUT 1121 - Music Theory I - Ear Training and Sight Singing

A study of the fundamentals of basic musicianship, music notation, understanding of simple rhythms, key situations, intervals, ear

training, dictation, sight singing, major and minor scales, intervals, triads, chords, polyphonic composition and elementary keyboard work.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 1001 or instructor permission.

Note:
▲Technology-Across-the-Curriculum Course.

MUT 1122 - Music Theory II - Ear Training and Sight Singing

A continuation of MUT 1121 . Basic musicianship, writing and reading of music, ear training, dictation, sight singing will be studied, as well as major and minor scales, intervals, triads, seventh chords, inversions, cadences, periods and progressions in all keys. Two, three and four part chords and polyphonic composition.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 1121 .

Note:
▲Technology-Across-the-Curriculum Course.

MUT 1641 - Jazz Improvisation I

A course designed to introduce the student to the concepts of Jazz Improvisation. Through active participation the student will develop the basic skills necessary to become a competent jazz soloist.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MUT 1121 .

Note:
This course may be taken up to two times for credit.

MUT 2126 - Music Theory III – Ear Training and Sight Singing

A continuation of MUT 1121 and MUT 1122 . The harmonization and modulation of melodies through the use of nondominant harmony and the study of sequence writing. Incorporates keyboard harmony plus sight reading of chromatic melodies, large intervals, and advanced rhythms.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 1122 .

MUT 2127 - Music Theory IV – Ear Training and Sight Singing

The continued study of harmonization of melodies, sequence writing, sight reading, intervals, advanced rhythms and structures.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 2126 .

MUT 2351 - Introduction to Jazz Theory/Arranging

A lecture-demonstration-workshop, approach to jazz/ pop arranging open to any student who wants to begin or understand composing/arranging. Studies include jazz/pop harmonies, arranging fundamentals and techniques, and the use of jazz/pop instrumentation. Workshop practices include assigned arrangements with the arrangements played by the jazz ensemble, and other audio demonstrations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MUT 1122 .

MUT 2642 - Jazz Improvisation II

A continuation of MUT 1641 Jazz Improvisation I. This course is designed to further develop the skills needed to become a

competent soloist in the jazz idiom.

Credit Hour(s): 2 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
MUT 1641 .

Note:
This course may be taken up to two times for credit.

MVB 1201 - Applied Music Secondary – Brass I

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
This course may be taken up to four times for credit.

MVB 2202 - Applied Music Secondary – Brass II

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVB 1201.

Note:
This course may be taken up to four times for credit.

MVK 1211 - Applied Music – Piano I

Private instruction in piano, as secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

MVK 2221 - Applied Music – Piano II

Private instruction in piano, as a secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVK 1211.

Note:
This course may be taken up to four times for credit.

MVP 1201 - Applied Music Secondary – Percussion I

Private instruction in percussion instruments to develop the student's performance ability in an applied area. One half-hour private lesson per week. Minimum of one hour daily practice is required.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
This course may be taken up to four times for credit.

MVP 2202 - Applied Music Secondary – Percussion II

Private instruction in percussion instruments to develop the student's performance ability in an applied area. One half-hour private lesson per week. Minimum of one hour daily practice.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVP 1201 .

Note:
This course may be taken up to four times for credit.

MVS 1016 - Applied Strings – Guitar I

Private instruction on guitar. Designed to equip the student for continuing study leading progressively to greater proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

MVS 1017 - Applied Strings – Bass Guitar I

Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

MVS 1111 - Class Guitar

The study of basic techniques for the beginning and continuing student.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Note:
This course may be taken up to four times for credit.

MVS 1201 - Applied Music Secondary – Strings I

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
This course may be taken up to four times for credit.

MVS 2026 - Applied Strings – Guitar II

Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
MVS 1016 .

Note:
This course may be taken up to four times for credit.

MVS 2027 - Applied Strings – Bass Guitar II

Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVS 1017 .

Note:
This course may be taken up to four times for credit.

MVS 2202 - Applied Music Secondary – Strings II

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVS 1201 .

Note:

This course may be taken up to four times for credit.

MVV 1211 - Applied Music – Voice I

Private instruction in voice, as a secondary instrument, consisting of one half-hour session per week, with a minimum of one hour daily practice.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

MVV 2221 - Applied Music – Voice II

Private instruction in voice, as a secondary instrument, consisting of one half-hour lesson per week, with a minimum of one hour daily practice.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVV 1211 .

Note:
This course may be taken up to four times for credit.

MVW 1201 - Applied Music Secondary – Woodwinds I

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
This course may be taken up to four times for credit.

MVW 2202 - Applied Music Secondary – Woodwinds II

Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
MVW 1201 .

Note:
This course may be taken up to four times for credit.

NSP 1721L - Strategies for Nursing Success

The purpose of this course is to provide nursing students with strategies to become more competent learners and test-takers. Topics will include critical thinking and problem-solving skills, nursing process, application of anatomy and physiology, test-taking strategies and techniques, study techniques, time management and support resources. Through content lecture review labs, test-taking skills practice and web-based instructional tools, students will gain additional assistance in preparation for the transition into Associate Degree Nursing courses.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
admission to the Nursing Program, permission of the program director.

NSP 2049L - Nursing Practice Readiness

This elective laboratory course assists the nursing student to prepare for the RN licensure examination (NCLEX-RN). Web-based instructional methodologies allow the student to complete the course within a self-paced time frame. Students practice test taking skills, self-evaluation and other strategies to gain confidence in sitting for the NCLEX-RN.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
NUR 2241C or permission from Nursing Program Director.

Note:

Special Nursing Program policies may apply to this course.

NUR 1021C - Nursing Process I

This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in this first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to healthcare systems ethical-legal aspects of nursing practice, health and illness, communications, functional health patterns of clients, stress-adaptation, professional behaviors, and all steps of the nursing process with emphasis on assessment of older adult clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary healthcare team.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Admission to the AS Nursing Program, BSC 1085C

Corequisite(s):
NUR 1021L , BSC 1086C , HUN 2201

Note:
Special Nursing Program policies may apply to this course.

NUR 1021L - Nursing Process I Clinical Experience

This course introduces students to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or in community settings. Students are introduced to all steps of the nursing process with a focus on assessment skills. Students will identify self-learning needs and set their own goals for improvement. Critical thinking and working effectively with peers and other healthcare professionals as a team member is expected. The demonstration of caring behaviors and therapeutic communication as a provider of bedside, technical nursing care is emphasized. Students must demonstrate safe performance of basic nursing skills, including but not limited to medication administration, physical assessment, and comfort care.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Admission to the AS Nursing Program

Corequisite(s):
NUR 1021C .

Note:
Special Nursing Program policies may apply to this course.

NUR 1141 - Pharmacologic Principles in Nursing I

This course introduces students to concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students begin to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs. Students will learn dosage calculations, factors that affect the absorption, excretion, distribution, and metabolism of drugs, as well as drug actions, adverse effects, and interactions.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
Admission to the AS Nursing Program

Note:
Special Nursing Program policies may apply to this course.

NUR 1142 - Pharmacologic Principles in Nursing II

This course continues to address concepts and principles of pharmacology related to safe administration of therapeutic agents within the nursing process framework. Students continue to learn major drug classifications and selected exemplars along with principles of safe, effective administration of drugs, including more complex dosage calculation skills.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring) Prerequisite(s):
admission to the Nursing Program.

Note:
Special Nursing Program policies may apply to this course.

NUR 1231C - Nursing Process II

Application of the nursing process continues with emphasis on the planning and implementation of nursing care for clients experiencing threats to functional health patterns, including women and infants within a significant support system. Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Development of professional behaviors, such as developing therapeutic relationships continues with students working clients through life interactions. Students further develop critical thinking skills through case studies and simulation scenarios designed to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief, and loss. Students learn basic management skills as a team member caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1021C or LPN licensure; admission to the AS Nursing Program or permission from the program director

Corequisite(s):
NUR 1750L , DEP 2004

Note:
Special Nursing Program policies may apply to this course.

NUR 1750L - Nursing Process II - Clinical Experience

This course builds on competencies presented in Nursing Process I regarding the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, and community settings provide students with opportunities to apply the nursing process in care of clients, including the older adult and newborns. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1021L or LPN licensure

Corequisite(s):
NUR 1231C .

Note:
Special Nursing Program policies may apply to this course.

NUR 1940L - Nursing Clinical Externship

This elective course is designed to offer students the opportunity to gain additional clinical skills practice during the summer semester. Working with a preceptor and the nursing faculty in area hospitals, clinics, or community settings , the student will be able to perform all skills learned in successfully completed nursing courses.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
admission to the AS Nursing Program; NUR 1750L

Note:
Special Nursing Program policies may apply to this course.

NUR 2233C - Nursing Process III

Students will continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to

focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1231C or approval from the program director.

Corequisite(s):
NUR 2233L , MCB 2010C

Note:
Special Nursing Program policies may apply to this course.

NUR 2233L - Nursing Process III – Clinical Experience

Students will continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites may include hospitals, clinics, schools, and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students must maintain all previously learned nursing skills and must perform safely all advanced nursing skills in in order to successfully complete this course.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 1750L

Corequisite(s):
NUR 2233C .

Note:
Special Nursing Program policies may apply to this course.

NUR 2241C - Nursing Process IV

Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in simulation seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development.

Credit Hour(s): 5 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
Permission from the Director of Nursing or NUR 2233C ; MAC 1105 or STA 2023

Corequisite(s):
NUR 2241L , NUR 2811L , SYG 2000

Note:
Special Nursing program policies may apply to this course.

NUR 2241L - Nursing Process IV – Clinical Experience

Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Other clinical activities will include experiences in the emergency department and critical care units. Students must demonstrate competency in all behaviors required for an Associate Degree Nursing graduate.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):
NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2811L

Note:

Special Nursing Program policies may apply to this course.

NUR 2811L - Nursing Practicum

This course is a capstone course and provides a time during the last four weeks of the nursing program in which students begin to transition from the student role into the graduate role as an associate degree nurse. Students attend seminar hours and complete standardized testing for evaluation in proficiency in applying all steps in the nursing process with emphasis on evaluating safe nursing care outcomes. Students complete clinical practice hours with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients. The focus is on demonstration of all professional behaviors and competencies expected of the associate degree registered nurse graduate at entry level. Clinical experiences provide hands-on learning opportunities, enhancing clinical thinking, safe nursing judgment, and clinical confidence in skills. Clinical experiences take place in a variety of clinical settings and work schedules.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

NUR 2233L

Corequisite(s):

NUR 2241C , NUR 2241L

Note:

Special Nursing Program policies may apply to this course.

NUR 2931 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 1 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2932 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2933 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

admission to the AS Nursing program; permission of Nursing program Director.

NUR 2934 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving.

Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
admission to the AS Nursing program; permission of Nursing program Director.

NUR 2935 - Special Topics in Associate Degree Nursing

Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAI, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule.

Credit Hour(s): 5 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
admission to the AS Nursing program; permission of Nursing program Director.

OCE 1001C - Oceanography

A survey of the physics, chemistry, geology and biology of the oceans. Interrelationships between the atmosphere and oceans, methods of measurement and research, processes of coastal change and marine conservation. May be used to satisfy A.A. requirements in physical science for career goals other than the sciences, engineering, and pre-professional healthcare.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring)

OCE 1013C - Aquatic Environmental Science

This course will investigate living and non-living components of aquatic ecosystems. Students will learn how aquatic ecosystems function naturally as well as how human activity can alter these ecosystems. The course is built around field trip(s) and lab work during which students will obtain water quality data from a local aquatic environment. Through field trip(s) and lab work, students will gain appreciation for the local relevance of course material. For both majors and non-majors, a key outcome of such experiences will be gaining experience in using inquiry and reasoning through the scientific method and becoming comfortable with data, technology, and instrumentation. Problem-solving, interpretation of data, and class discussions will be key.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

OST 1107 - Word Processing I

Integration of basic keyboarding and word processing – learning the keyboard, creating, editing, saving, and other word processing functions.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Note:
▲Technology-Across-the-Curriculum Course.

OST 1355 - Records Management

Methods and systems of filing used in business offices, filing equipment, and time-and-motion skills. Filing practice sets are used.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

OST 2117 - Word Processing II

Continuation of Typing and Word Processing I – develop keyboarding and document processing using a microcomputer.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
OST 1107 or equivalent.

Note:
▲Technology-Across-the-Curriculum Course.

OST 2335 - Business Communications

Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal achievement, successful completion of any required developmental English coursework with a grade of "C" or better, or exemption from placement testing.

OST 2401 - General Office Management

Study of practices and procedures in the modern office. Emphasis on exercising judgment, handling incoming calls and callers, processing mail, word processing systems, editing and composing techniques, travel arrangements, banking procedures, employment applications and resumes.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
OST 2117 .

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PEL 1212A - Advanced Softball

Instruction, practice, and participation in advanced softball. The continuous development of physical skills is of major importance in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PEL 1213 - Advanced Softball II

This course is a continuation of Advanced Softball, which consists of instruction, practice, and participation in advanced softball. The continuous development of physical skills is of major importance in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
PEL 1212A (Athletes)

PEL 1217A - Advanced Baseball

Instruction, practice, and participation in advanced baseball. The continuous development of physical skills is of major importance in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PEL 1219 - Advanced Baseball II

This course is a continuation of Advanced Baseball, which consists of instruction, practice, and participation in advanced baseball. The continuous development of physical skills is of major importance in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
PEL 1217A (Athletes)

PEL 1624M - Advanced Basketball (Men)

This course is a high intensity, drill-oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of

class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PEL 1624W - Advanced Basketball (Women)

This course is a high intensity, drill oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including: rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PEL 1626M - Advanced Basketball II (Men)

This course is a continuation of Advanced Basketball for Men, which consists of a high intensity, drill -oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
PEL 1624M (Athletes)

PEL 1626W - Advanced Basketball II (Women)

This course is a continuation of Advanced Basketball for Women, which consists of a high intensity, drill -oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be recommended and in some cases required that the student obtain medical approval before participating in this course.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
PEL 1624W (Athletes)

PEM 1131A - Strength Training

This course is a high intensity lecture/demonstration and flexible lab hour weight training program designed to increase the size, strength, and endurance of the skeletal muscle system. Instruction includes, but is not limited to, weight training safety, etiquette, history, and nutrition. Instruction will be given in the design of progressive resistance programs to increase total body efficiency and to meet the objectives of the individual student. Students are responsible for determining fitness for training, and those with medical problems which restrict personal activities are encouraged to obtain medical clearance before enrolling in the course.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PEM 2108 - Fitness Lab

Instruction and participation in an exercise program with emphasis on muscle endurance, strength and flexibility.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Prerequisite(s):
HLP 1081 or approved wellness assessment by the department chair.

Note:
This course may be taken up to four times for credit.

PEO 2004 - Theory and Practice of Teaching a Specific Sport

This course is designed to provide knowledge of the rules, teaching progressions and strategies for competition. The course includes acceptable behavior and ethics for coaches. This course will be offered for the following specific sports: baseball/softball, basketball, football, golf, soccer, swimming, tennis, track and field/cross country, volleyball and wrestling.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PEO 2005 - Coaching Theory

This course is designed to provide knowledge of the characteristics, principles, ethics, and theories related to coaching sports in educational and recreational settings. Emphasis is placed on preparing coaches to train athletes to achieve optimal levels of performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PET 1000 - Introduction to Physical Education

A study of the history of physical education and sport with particular emphasis placed on present practices and trends.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PET 2622 - Care and Prevention of Athletic Injuries

Designed to provide students with a basic knowledge of the care, prevention, and rehabilitation of injuries received during participation in physical education activities to include the effects and dangers of drug use including performance enhancing drugs.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PGY 1220C - Commercial Photography I

A beginning course that introduces students to the procedures and aesthetics of developing photographic illustrations for industrial and advertising use. Students will gain experience using a high quality digital studio camera, electronic lighting, and digital applications of their work. It is recommended that students take PGY 1801C prior to or at the same time as this course.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

PGY 1401C - Basic Photography

A beginning course in black and white photographic and darkroom technique. Students will learn the functions of their camera and darkroom equipment. Students will apply their technical knowledge to various artistic challenges. Access to a 35mm camera with manual mode required.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

PGY 1405C - Advanced Black and White Photography

An advanced course in black and white photography. Students will be presented with more demanding creative challenges and will be exposed to a variety of advanced procedures in the darkroom. Access to a 35mm camera with manual mode required.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
PGY 1401C or equivalent.

PGY 1801C - Digital Photography I

A beginning course in photography with an emphasis on digital darkroom production techniques. Students will be exposed to procedures and aesthetic concerns relating to photography and digital image production. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Note:
▲Technology-Across-the-Curriculum Course.

PGY 2221C - Commercial Photography II

As advanced a course that allows the student to expand their skill set in producing photographic illustrations for industrial and advertising use. Students may explore product, portrait, and on-location commercial photographic projects.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
PGY 1220C and PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

PGY 2802C - Digital Photography II

An intermediate-level photography course where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
PGY 1801C .

Note:
▲Technology-Across-the-Curriculum Course.

PGY 2804C - Digital Photography III

An advanced-level photography courses where creative idea generation and composition in photography are emphasized. Students research more deeply the history of photography and apply new skills to creative digital photographic work. Access to an appropriate high-quality camera required.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
PGY 2802C .

Note:
▲Technology-Across-the-Curriculum Course.

PHI 2010 - Introduction to Philosophy

Central concepts of philosophy are developed, including a description of the main philosophical problems involved through ancient, medieval, and contemporary thought. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

PHI 2600 - Introduction to Ethics

Ways to frame and resolve ethical issues are studied. Major historical theories including consequentialism, deontology, and virtue ethics are presented in moral arguments and narratives. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

PHI 2930 - Philosophy – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020 - Physical Science

A one term course of lectures and demonstrations designed 1) to meet the general education requirements in physical science for non-science majors and 2) for students who need a preparatory course prior to taking physics. The course presents the fundamental classical and modern concepts of physics in the area of mechanics, energy, wave motion, electromagnetism, and atomic structure. Also topics in earth science and astronomy will be discussed.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer)

PHY 1020L - Physical Science Laboratory

A science laboratory course designed to supplement principles covered in Physical Science. Specifically experiments in motion, forces, light, electricity, thermodynamics, astronomy, earth science and meteorology. It is recommended that the student have previously taken PHY 1020 or be currently enrolled in PHY 1020 .

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

PHY 1053C - Physics I

The first half of a two term sequence of non-calculus physics designed for the nonphysical science major. Physics I covers the areas of mechanics, mechanical energy, temperature and heat. The entering student is assumed to have a working knowledge of basic algebra and trigonometric functions.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MAC 1114 .

PHY 1054C - Physics II

The second half of a two term sequence of noncalculus physics designed for the nonphysical science major. Physics II covers the areas of electricity, magnetism, light, quantum theory, atomic and nuclear structure, and elementary nuclear processes.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
PHY 1053C or equivalent.

PHY 2048C - College Physics I

The first of a two-course sequence in calculus-based college physics designed for engineering, physical science, and pre-professional studies majors. This course covers mechanics (statics and dynamics), rigid-body dynamics, fluids, and thermodynamics.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prereq/Corequisites:
MAC 2311 .

PHY 2049C - College Physics II

This course is the second in the physics sequence. Topics covered are wave theory, electrostatics, magnetostatics, EM fields and waves, DC circuits, and AC circuits. This is a preparatory class for students taking circuits and electronics classes in upper division science and engineering courses.

Credit Hour(s): 4 Credit Hours When Offered: (Spring, or offered as needed) Prerequisite(s):
PHY 2048C , MAC 2312

Corequisite(s):
MAC 2312 . In special circumstances PHY 2048C and PHY 2049C can be taken out of sequence with instructor approval.

PLA 1003 - Introduction to Paralegal Studies

This course is designed to give students a broad understanding of the nature of the paralegal profession and the elements contained within the profession, as well as its responsibility.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1005 - Legal Terminology

This course is designed to give an explanation of the common legal vocabulary involved in the broad, general principles of substantive and common law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1013 - Introduction to the Legal System

A practical introduction to the US legal system, types and sources of law, the courts, and related topics; a beginning course for students seeking careers in legal secretary technology or legal assisting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1114 - Legal Research and Writing

This course is designed to provide the student with necessary skills and knowledge required in legal research/case analysis and legal writing.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
PLA 1003

Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1203 - Civil Procedure

This course provides an insight into the system of dispute resolution for private parties and the government provided by the court systems of the various states and the federal government in a non-criminal setting.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Note:
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1600 - Wills, Trusts, and Probate

This course is designed to provide the student with an introductory knowledge of estate planning, wills, and probate administration.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 1800 - Introduction to Family Law

An introduction to practices as they relate to family law.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 2273 - Tort Law

This course is designed to provide the student with an introductory knowledge of tort law with objectives centered on personal injury torts.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Note:

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PLA 2949 - Internship - Paralegal

This is an individualized internship course that provides the student with supervised professional experience utilizing skills acquired in the program of study. The student will work with a qualified work site supervisor on approved projects related to his or her degree in a professional environment. The work site supervisor will evaluate the student's performance, and the student will submit report(s), examples of projects completed, or other assignments as required by the instructor, as appropriate, during the internship experience for evaluation by the college instructor. If this course is taken for credit more than once, the student must, on the second and subsequent (if applicable) enrollment(s), develop in concert with the work site supervisor and college instructor a unique set of objectives and assessments.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring) Prerequisite(s):

completion of a minimum of 12 credit hours in the appropriate discipline, including PLA 1003 and permission of the instructor.

Note:

*This college credit course is not intended for transfer and may not be applied toward the AA degree.

PMT 1203C - Introduction to Machining

In this course, the student will learn how to interpret engineered blueprint drawings, lay out scribe lines and marks for sawing, rough saw and cut materials; utilize precise indicating devices for tramming of machines, indicating vises, sine bars, angle plates, etc. in order to set up and operate various machines; square, face, cut, turn down, and bore material to maintain strict machining tolerances; develop a basic knowledge and understanding of industrial materials to calculate proper speeds, feeds, and RPM's and safely operate heavy-duty industrial machinery.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

ETM 1010C and ETD 1320C or equivalent experience

Note:

This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2213C - Machining I

In this course students will continue to develop basic machining skills and better utilize machine tool accessories to assist in different machining operations to include: set up and utilize machine tool accessories, vertical knee milling operation, manual lathe operations, manual lathe threading and drill press operations.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 1203C and ETD 2218 or equivalent experience

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

PMT 2214C - Machining II and Introduction to CNC

In this course, utilizing the skill sets learned in Introduction to Machining and Machining I the student will bring the machining process together to fabricate a complete assembly. In addition, this course includes an introduction to CNC.

Credit Hour(s): 6 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

PMT 2213C

Note:

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

POS 1041 - American Government

Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

POT 1002 - History and Ideas of Political Science

This course reviews classical ideas, political theory and institutions from a historical and comparative viewpoint. It examines the rise of the State, its organization, economic systems, the use of force, and persuasion. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

PSC 2905 - Independent Study – Physical Science

Directed study and individual projects designed to meet the needs of students interested in a specialized area of the physical sciences for which present course availability is limited. Meets specific general education requirements.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Note:

This course may be taken up to four times for credit.

PSY 2012 - Psychology

Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

REA 1205 - Reading Across the Genres I

This college-level reading course employs a variety of literary genres as the source material for building student skills in

comprehension, context clues, reading speed, critical analysis, vocabulary, and other related reading skills. Students will be exposed to numerous styles and levels of reading material including novels, short stories, critical essays, drama, news reporting. Students will also develop a personal reading preference profile and learn how to identify books, magazines and other reading material commensurate with that profile.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
PERT placement score of 106 or higher.

REA 2105 - Advanced Reading

An individualized approach designed to improve reading speed, comprehension, and critical analysis skills while reading various types of material for either educational or recreational purposes. Activities and materials are individualized to meet specific needs of students as determined through diagnostic instruments. Helpful for those students whose speed, comprehension, and analysis skills are weak or inadequate for proper text book analysis.

Credit Hour(s): 2 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
PERT placement score of 106 or higher.

Note:
▲Technology-Across-the-Curriculum Course.

REL 2300 - Introduction to World Religions

This course will explore the principles and practices of the world's major religious traditions. The religions will be studied in their historical and contemporary forms. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

REL 2930 - Religion – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

RTE 1000 - Introduction to Radiologic Technology

This course is designed to provide an overview of the history of radiography and the role and scope of practice of the practitioner in the healthcare delivery system. Organizations, accreditation, federal agencies, regulatory agencies (including OSHA) and professional credentialing will be discussed. Content includes a fundamental background in medical law, ethics, human diversity and patient consent. The student will examine a variety of ethical issues and dilemmas found in clinical practice, as well as developing a better understanding of patients, the patient’s families, and professional peers through comparison of diverse populations based on value systems, cultural and ethnic influences, communication styles and socioeconomic influences. Radiographic Medical Terminology will be covered.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Radiography Program.

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS

Articulation Agreement.

RTE 1111 - Introduction to Radiographic Patient Care

This course is designed to prepare radiography students to provide basic patient care. Basic concepts of patient care will be described, as well as infection control procedures and standard precautions. This course includes hospital specific training. Health risks, life stages, HIV/AIDs and domestic violence will be discussed. This course also includes an introduction to medical and radiographic terminology. Topics include vital signs, venipuncture, body mechanics and transport, verbal/nonverbal communication, and some pharmacology.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Radiography Program.

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1418 - Radiographic Techniques I

This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiographic images. This course introduces the student to a comprehensive study and theory of the production of x-rays and primary exposure factors of radiographic imaging. The image parameters of density, contrast, recorded detail, image distortion and blur will be studied as well as ancillary devices and equipment required to produce a quality radiographic image. Film and digital imaging with related accessories will be emphasized. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
admission to the Radiography Program.

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1457 - Radiographic Techniques II

This course is a continuation of RTE 1418 Radiographic Techniques I , and is designed to introduce the student to various specific radiographic methods and techniques, such as automatic exposure control, fluoroscopy and image intensification, macroradiography, subtraction radiography, conventional tomography, digital image receptors, and digital image acquisition and manipulation. The student will also be instructed in calculating heat units, tube rating charts, anode cooling chart, and characteristic curves.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
RTE 1418 .

Corequisite(s):
RTE 1613 .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1503C - Radiographic Procedures I

This course is designed to provide the Radiography student with instruction in radiographic examinations of the chest, abdomen, upper extremity and lower extremity. An introduction to medical and radiographic terminology, radiographic anatomy, and image critique are also included.

Credit Hour(s): 4 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1513C - Radiographic Procedures II

This course is a continuation of RTE 1503C . It is designed to provide the student with instruction in radiographic procedures and anatomy in the distal extremities, hip region, spine, ribs, and sternum and the cranium. Critical thinking, medical and radiographic terminology, as well as image critique are emphasized.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1503C , RTE 1804L

Corequisite(s):

RTE 1814L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1613 - Radiographic Physics

This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Course content also includes the basics of magnetism, electricity, motors, generators, rectifying systems, x-ray tube and filament circuitry. Topics in electromagnetism such as self and mutual induction, high voltage transformation, and AC rectification will be emphasized.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):

RTE 1418

Corequisite(s):

RTE 1457 .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1804L - Radiography Clinical Education I

This course involves the practical application of the theories covered in RTE 1503C and RTE 1000 . Rotations provide experience with various imaging systems, protocols, and patient care. Students observe, assist and perform basic radiographic procedures (chest, abdomen and extremities) under direct supervision. This course emphasizes patient care and critical thinking. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):

admission to the Radiography Program.

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1814L - Radiography Clinical Education II

This course is a continuation of Radiography Clinical Education I. This clinical training emphasizes lower and upper extremity. Medical and radiographic terminology, patient care, critical thinking and communication skills are emphasized. This course meets

at the affiliate hospitals. Uniforms, name badges and radiographic markers required.

Credit Hour(s): 2 Credit Hours When Offered: (Spring) Prerequisite(s):
RTE 1804L

Corequisite(s):
RTE 1513C .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 1824L - Radiography Clinical Education III

This course is a continuation of Radiography Clinical Education II. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I and II. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, critical thinking, imaging and exposure techniques, radiation protection application and image processing will be emphasized. This rotation covers clinical experience in all phases of fundamental radiologic procedures and image critique. Students will rotate through ancillary departments in this course.

Credit Hour(s): 4 Credit Hours When Offered: (Summer) Prerequisite(s):
RTE 1814L

Corequisite(s):
RTE 2523C .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2061 - Radiographic Preparation for Practice

This course is designed review information in preparation for the student to take the American Registry of Radiologic Technologist (ARRT) registry examination. The course will cover patient care and education, image production, equipment operation and maintenance, radiographic procedures and radiation protection. The student will also be given simulated registry examinations for practice and assessment purposes.

Credit Hour(s): 4 Credit Hours When Offered: (Spring) Prerequisite(s):
RTE 2844L

Corequisite(s):
RTE 2854L .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2385 - Radiographic Protection and Biology

This course is designed to provide the student with an overview of the principles of interaction of ionizing radiation with lining systems. Ionizing effects on molecules, cells, tissues and the body as a whole are presented, along with factors affecting biological response, including; acute, chronic, stochastic and non-stochastic effects. This course is also designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated, as are the various methods of monitoring radiation exposure and acceptable dose limit values.

Credit Hour(s): 3 Credit Hours When Offered: (Fall) Prerequisite(s):
RTE 1000 , RTE 1418 , RTE 1457 , RTE 2523C

Corequisite(s):
RTE 2844L .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2473 - Radiographic Quality Assurance

This course is designed to introduce the student to the quality management of medical imaging, including quality control procedures and image analysis/critique of radiographs. This course will include theory and practical applications to routine quality control check on routine, fluoroscopic, mobile, and tomographic radiography equipment. Quality control tests on ancillary equipment, such as film processor, view boxes, grids and leaded protective equipment are also included. Acceptable parameters for QC tests, as established by various regulatory agencies will also be presented. This course teaches the student to critically analyze radiographic images for image quality and diagnostic value, as well as formulating corrective action as needed. Class demonstrations and labs are used to demonstrate application of theory.

Credit Hour(s): 2 Credit Hours When Offered: (Fall) Prerequisite(s):
RTE 1418 , RTE 1457

Corequisite(s):
RTE 2844L .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2523C - Radiographic Procedures III

This course is a continuation of RTE 1513C covering cranium procedures and positioning. It is designed to provide the student with instruction in more complex radiographic procedures such as fluoroscopy, urinary studies, bone age, trauma, pediatrics, mobile and surgical radiography. Included is instruction in additional modalities and studies such as CT, MRI, arthography, myelography, and vascular studies. Attention will be given to the specialized equipment, contrast media, critical thinking and techniques necessary to perform these procedures. Radiographic anatomy, pathology, and critique of images are included in this course.

Credit Hour(s): 3 Credit Hours When Offered: (Summer) Prerequisite(s):
RTE 1513C

Corequisite(s):
RTE 1824L .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2571 - Introduction to Computed Tomography

This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

Credit Hour(s): 1 Credit Hour When Offered: (Spring) Prerequisite(s):
RTE 1457

RTE 2782 - Radiographic Pathology

This course is designed to introduce theories of disease causation and the pathophysiologic disorder that compromise healthy persons. Etiology, pathophysiologic responses, clinical manifestations, and radiographic appearance of alterations in body systems

will be presented. Emphasis will be placed on pathological findings on diagnostic radiographic images, in both conventional and digital formats.

Credit Hour(s): 3 Credit Hours When Offered: (Spring) Prerequisite(s):
RTE 2523C

Corequisite(s):
RTE 2854L .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2844L - Radiography Clinical Education IV

This course is a continuation of RTE 1824L . The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I, II and III. The student will gain experience and develop clinical competence in specialized imaging procedures, and mobile, surgical and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Fall) Prerequisite(s):
RTE 1824L

Corequisite(s):
RTE 2385 .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2854L - Radiography Clinical Education V

This course is a continuation of RTE 2844L . The terminal objective for this course is to prepare the student for employment as an entry level technologist. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum's I-IV and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue.

Credit Hour(s): 6 Credit Hours When Offered: (Spring) Prerequisite(s):
RTE 2844L

Corequisite(s):
RTE 2061 .

Note:
♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

RTE 2910 - Radiographic Evidence Based Practice

This course is designed to develop the student's research, writing and oral presentation skills; while completing assignments, both independently and collaboratively, with minimal direction and supervision. Methods of research, appropriate style of writing, citing work, and using APA format will be covered.

Credit Hour(s): 1 Credit Hour When Offered: (Fall) Prerequisite(s):
RTE 2523C

Corequisite(s):
RTE 2844L .

Note:

♦This college credit course may not be applied toward the A.A. degree and normally is not intended for transfer unless the student transfers to a baccalaureate in radiologic sciences degree program that is specified under the Florida Statewide AS to BS Articulation Agreement.

SLS 1101 - College Success

A course designed to focus on developing practical study skills to enhance academic success. Skills taught in this course are time management, concentration/memorization, listening, note taking, test taking, use of college resources, establishing goals, identifying learning styles, developing career choices and learning to cope with personal issues that face many college students.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

SLS 1201 - Service Learning Seminar

A seminar course designed to enhance and reinforce the value of civic responsibility and to provide students with a community service program opportunity by volunteering in community agencies in the public and private sectors.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed)

SPC 1006 - Essentials of Speech

This course can be used to satisfy missing transfer requirements and/or oral components required in certain programs. Individuals participate in the preparation and presentation of speeches.

Credit Hour(s): 1 Credit Hour When Offered: (Offered as needed) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 1608 - Public Speaking

Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2300 - Interpersonal Communication

This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

SPC 2511 - Discussion and Debate

This course is designed to provide learning experiences in rational decision making incorporating the techniques of persuasion through organized procedures for argumentation, debate and discussion.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
membership on forensic team.

SPN 1120 - Spanish I

Pronunciation and grammatical structures of Spanish, with emphasis upon balanced development of all four skills – listening,

speaking, reading, and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SPN 1121 - Spanish II

Pronunciation and grammatical structures of Spanish, with emphasis upon balanced development of all four skills – listening, speaking, reading and writing. Covers all basic structures of the language.

Credit Hour(s): 4 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
SPN 1120 or an equivalent course with a grade of “C” or better.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SPN 2220 - Spanish III

Intermediate level review of grammar, readings in Spanish Literature, and development of conversational and writing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
SPN 1121 or an equivalent course with a grade of “C” or better.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SPN 2221 - Spanish IV

Completion of intermediate level review of grammar, readings in Spanish literature, and development of conversational and writing skills.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

SPN 2220 or an equivalent course with a grade of “C” or better.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

STA 2023 - Statistics

This course provides a general introduction to understanding and applying statistical terms and concepts. Topics include the following: descriptive statistics, probability, random variables, discrete and continuous probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, two sample inferences, correlation, and simple linear regression. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
completion of MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

STA 2122 - Statistical Applications

This course is designed for students pursuing psychology, education, and some specialized degrees. The course is an introduction to understanding and applying statistical concepts. Topics include: descriptive statistics, probability distributions, one and two sample hypothesis testing, confidence interval estimation, correlation, regression, and analysis of variance. Non-symbolic graphing calculators are required. The TI-83/84 Series is recommended. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
MAT 1033A or equivalent with a “C” or better, or appropriate placement score.

SYG 2000 - Sociology

An introduction to the basic theories, concepts, and descriptions of individuals, groups, and societal behaviors. Basic themes include an overview of culture, socialization, deviance, and social institutions, with an emphasis on the dynamics of families, government, and economic influences.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2010 - Social Problems

Introduction to the sociological study of the nature of social problems to insure understanding of their impact on the individual, the group and social institutions in societal and cultural settings. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

SYG 2430 - The Family and Society

An examination of the problems which arise out of participation in marriage, family and community situations. Designed to provide students with a basic understanding of the dynamics of family interaction, the effects upon the children, and the family's relationship to and participation in the community.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer)

TAR 2121C - Architectural Drafting

Architectural design and development of residential and light commercial buildings to include: development and construction of good architectural freehand lettering, VA and FHA approved residential house plans, “Good Sense” house plans as defined in the Arkansas Plan, and heat loss/heat gain calculations.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
ETD 1102 or ETD 1112 or equivalent.

TAX 2000 - Federal Income Tax: Individual

Federal Income Taxes. Determine income tax for individuals, interpretations of Internal Revenue Code and Regulation, tax planning and advisory service. Brief introduction to partnership, corporation, estate and gift taxes. Extensive practice problems in individual income tax returns and research in tax questions.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

THE 1905A - Independent Study – Theater

A defined independent study which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized

nature and not available through the college schedule. Departmental approval required. Placement test is required. The course includes Writing-Across-The-Curriculum. If used to meet Gordon Rule requirements for general education, a minimum grade of “C” is also required.

Credit Hour(s): 1 Credit Hour When Offered: (Fall, Spring, Summer) Prerequisite(s):
Approval from department chair, a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

THE 2000 - Theatre Appreciation

An introduction to theater and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theater. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education. This course contains an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2071 - Humanities – Cinema Appreciation

An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2300 - Dramatic Literature

Survey of dramatic works from the Greeks to the 20th century, with emphasis on the plays of the 19th and 20th centuries; intensive investigation and script analysis with reports, lectures and discussions. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. A minimum grade of “C” is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communication/verbal/reading achievement or successful completion of ENC 0025 and REA 0017 .

Note:
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

THE 2820 - Musical Theater Workshop

An introduction to creative dramatics and children's theater. Topics span a wide range of interests; creative experience, children and theater, workshop procedure, script selection, rehearsal and performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

THE 2821 - Musical Theater Workshop II

Creative dramatics introduces the many elements of theater: dance, voice and musical theater. Topics span a wide range of interests: the creative process, workshop procedures, rehearsal and performance. Creative Dramatics will focus on producing a final performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
THE 2820 .

THE 2930 - Theater – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

TPA 1210 - Stagecraft

This course is an introduction to the principles of stagecraft: stage terminology, stage safety, instruction in proper use of shop tools, basic theater construction methods, understanding of theatrical rigging, and understanding of general background practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 1290 - Technical Theater Lab I

An introduction to technical theater and scene technology. Topics include scene drawings, safety and health, stage facility, basic crafts, two and three-dimensional scenery, scene painting, scene assembly, rigging, properties, special effects and shop organization.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPA 1210 .

TPA 2220 - Technical Theater Lab II

An introduction to stage lighting. Topics include history of stage lighting, fundamentals of light and illumination, lighting control, and lighting practices.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPA 1210 .

TPA 2232 - Introduction to Costuming Technology

An introduction to costume techniques and wardrobe practices. Topics span a wide range: costume construction techniques, problems in costumes, costume history, construction styles, sewing machine practices, seam finishes, flat pattern layout and production techniques. This course is intended to develop practical experiences in theater costumes.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPA 2276C - Entertainment Technology - Crafts

This course presents the practices and principles of advanced woodworking, welding, smithing, casting, ceramics, plaster work, fiberglass and plastic technology for the entertainment industry. State of the art tool technology, shop and field practice, health and safety standards will be emphasized. These crafts are entertainment industry oriented that will use items created in a realized production.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):

TPA 1210 .

TPA 2600 - Stage Management

This course is an introduction to the study and application of stage management as it relates to the manager portfolio, the stage manager morgue, rules and regulations relating to I.A.T.S.E., rules related to contracts, competence in stage management, proper communication with directors, technical directors, designers, cast members and crews, competence in technical discussion areas and basic first aid.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 1190 - Rehearsal and Performance I

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s): experience in high school or a desire to learn.

TPP 1191 - Rehearsal and Performance II

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s): TPP 1190 .

TPP 1192 - Rehearsal and Performance III

An ensemble theater performance experience open to any student who wishes to develop rehearsal and performance skills. Students must participate in scheduled rehearsals and performances.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s): TPP 1191 .

TPP 2110 - Acting I

Through in-class performance the student will develop an understanding and proficiency of those skills of movement, voice, and expression which are required of a theatrical performer.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2111 - Acting II

Through in-class performance, the student develops an understanding and proficiency in styles of acting from classic through modern.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s): TPP 2110 .

TPP 2118 - Acting III

This course is a continuation of TPP 2111 , Acting II, with specialization in characterization utilizing scripted materials and scene study.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s): TPP 2111 .

TPP 2119 - Acting IV

This course is a continuation of TPP 2118 , Acting III, with advanced study of acting skills and script analysis with specialization in performance.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2118 .

TPP 2250 - Introduction to Musical Theatre

Introduction to the study of Musical Theater analysis, creation, and performance with an emphasis on singing, dancing, and acting.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2301 - Directing I

A beginning course in the study, development and training in directing for the theater. Although not a prerequisite, students are encouraged to take Acting I and II before Directing I.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed)

TPP 2302 - Directing II

Directing II is a continued study of the basic principles of directing for the theater with emphasis in the continued study, development and training in directing for the theater.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
TPP 2301 .

TPP 2930 - Theater Performance – Special Topics

A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Note:
This course may be taken up to four times for credit.

WOH 1012 - World Civilization I

A study of world history from 4000 BC to 1650 AD as it relates to the development of western civilization. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 1022 - World Civilization II

A study of history from 1650 AD to the present as it relates to the development of the modern world. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing

course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Fall, Spring, Summer) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

WOH 2040 - 20th Century

International political and historical affairs in the 20th century through the institutions and organizations of the Western State System. Attention is on international cooperation, decision making, force, world resources, and world political geography by the selection of a specific problem. This is a Gordon Rule writing course and is part of the college's Writing-Across-the-Curriculum program. A minimum grade of "C" is required if used to meet Gordon Rule requirements for general education.

Credit Hour(s): 3 Credit Hours When Offered: (Offered as needed) Prerequisite(s):
a passing score on the standardized placement test measuring communications/verbal/reading achievement, successful completion of any required developmental English and Reading coursework with a grade of "C" or better, or exemption from placement testing.

Note:
This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.

ZOO 1010C - Zoology

An introduction to the major concepts of animal life, to include the structure, taxonomy, evolutionary relationships, and natural history of the major animal groups.

Credit Hour(s): 4 Credit Hours When Offered: (Offered as needed)

Vocational Courses

CJK 0001 - Introduction to Law Enforcement

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to introduce the student to law enforcement, the process for becoming a certified law enforcement officer, and the requirements of the academy program. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0012 - Legal

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to introduce the student to the criminal justice system, the chain-of-command system in law enforcement, Constitutional Law, Florida Statutes, and the Police Code of Ethics. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 63 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0013 - Interactions in a Diverse Community

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enhance student awareness and understanding of human diversity issues and to teach students skills to enable them to effectively interact with people of diverse backgrounds. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0014 - Interviewing and Report Writing

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to help the student learn vital communication skills including interviewing, note-taking, statement taking, and report writing. It also helps the student to develop survival skills, stress management skills, and problem solving skills utilizing the SECURE model. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 54 Clock Hours When Offered: (Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0020 - Law Enforcement CMS Vehicle Operations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply vehicle operations knowledge, principles and techniques to the police driving environment. This course includes classroom instruction and practical application on the driving range. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0031 - CMS First Aid for Criminal Justice Officers

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. This course is designed to prepare prospective police officers to apply first responder knowledge and techniques to medical emergency situations. This course includes classroom instruction and hands-on practical demonstration. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or the Corrections Basic Recruit Academy.

Credit Hour(s): 48 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0040 - CMS Firearms

This course is a component of the Law Enforcement/Corrections Florida CMS Basic Recruit Academy. This course is designed to give the student basic skills and knowledge needed to safely operate a firearm, and shoot a handgun, and shotgun and/or rifle with a prescribed degree of accuracy. This course includes classroom instruction and firing range practice/qualification. This course is open only to students admitted to the Law Enforcement Florida CMS or Corrections Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0051 - Defensive Tactics

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare prospective officers to control subjects and defend themselves using appropriate defensive tactics in accordance with Florida State Statue, the United States Constitution, and case law. This course includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 81 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0064 - Fundamentals of Patrol

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to understand Community Oriented Policing and how it is implemented as a problem solving model, and identify the SECURE problem solving model and its application in real life situations; understand officer safety issues, identify and avoid fatal errors, identify and manage stress, maintain mental and physical fitness; respond to a call, approach a suspect, make an arrest, transport a prisoner and process the prisoner at a detention facility; and understand how to direct traffic, how to enforce traffic citations, identify how to respond to alarms and conduct a building search, and search inventory and impound vehicles. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0065 - Calls for Service

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to respond to calls for service, disturbances, people in distress and court orders. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0077 - Criminal Investigations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to prepare the student to respond appropriately to a person or property crime victim, witness, and suspect; conduct a preliminary investigation on crimes against persons and crimes against property offenses; conduct a follow-up investigation to establish a suspect's identity and/or ascertain facts of the case; and, give testimony in different types of court proceedings. It includes classroom instruction and practical exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 51 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0078 - Crime Scene to Courtroom

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to prepare the student to respond to a crime scene, protect and survey a crime scene, process a crime scene, dust for latent prints, and document a crime scene by sketching. This course includes classroom instruction and scenario-based training exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 36 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0084 - DUI Traffic Stops

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to the basic rules for conducting safe and effective DUI stops, including identifying a driver under the influence of alcohol and drugs, conducting field sobriety tests, and completing a DUI investigation. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0087 - Traffic Stops

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to the basic rules for conducting safe and effective traffic stops, including ethical consideration, safety considerations, citation and warning procedures, and dealing with abandoned vehicles. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 30 Clock Hours When Offered: (Offered Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0088 - Traffic Crash Investigations

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It introduces the student to traffic crash investigations, laws pertaining to traffic crashes and procedures for responding to a traffic crash. It includes classroom instruction and practical exercises. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0092 - Critical Incidents

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to enable students to identify the crowd control procedures to safely and effectively disperse or control a large group of people; understand local emergency response plans; respond to a bomb threat, assesses the scene, search and evacuate a building or suspected bomb sight, identify Weapons of Mass Destruction and properly respond to a WMD incident. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 45 Clock Hours When Offered: (Fall, Spring, Summer) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096A - Criminal Justice Physical Fitness I

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096B - Criminal Justice Physical Fitness II

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0096C - Criminal Justice Physical Fitness III

This course is a component of the Law Enforcement Florida CMS Basic Recruit Academy. It is designed to encourage students to improve their overall physical fitness, improve their score on the final fitness evaluation, and adopt a foundation for lifelong fitness. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0240 - Law Enforcement Auxiliary Introduction

This course is a component of the Law Enforcement Auxiliary Basic Recruit Academy. It introduces the student to the criminal justice system. It also introduces an understanding of ethics and professionalism required by a law enforcement auxiliary officer as well as the daily functions to be conducted by an auxiliary officer. This course is open only to students admitted to the Law Enforcement Auxiliary CMS Basic Recruit Academy.

Credit Hour(s): 27 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0241 - Law Enforcement Auxiliary Patrol and Traffic

This course is a component of the Law Enforcement Auxiliary Basic Recruit Academy. It introduces the student to the basic rules for responding to calls, making arrests, and transporting prisoners. It also helps students understand how to direct traffic, enforce citations and maintain crowd control. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0242 - Law Enforcement Auxiliary Investigations

This course is a component of the Law Enforcement Auxiliary Florida Basic Recruit Academy. It introduces the student to the basic rules for responding, protecting and processing a crime scene. It also introduces how to conduct an investigation and give a testimony in court. It includes classroom instruction and practical proficiency exercises. This course is open only to students admitted to the Law Enforcement Auxiliary Florida Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved

articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0300 - Introduction to Corrections

This course introduces students to the legal and ethical responsibilities of a correctional officer. Legal terms and definitions are explained. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 33 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0305 - CJSTC Communications

This course covers the entire report writing process. Topics include interview and interrogation, interpersonal communication, and practical exercises. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0310 - Officer Safety

Correctional officer safety procedures are learned. Students will learn to identify potential hazards and learn how to safely respond. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0315 - Facility and Equipment

Students learn the appropriate procedures for inspecting a correctional facility and equipment. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 12 Clock Hours When Offered: (Offered as needed) Note:

*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0320 - Intake and Release

Students learn the appropriate procedures for admitting and releasing inmates in a correctional facility. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0325 - Supervising in a Correctional Facility

Students learn the appropriate procedures for supervising inmates in a correctional facility. They also learn to detect crimes and rule violations in various correctional facility settings. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 42 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0330 - Supervising Special Populations

Students learn how to identify and supervise special population groups, such as threat groups, juveniles, elderly, and mentally ill inmates. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 21 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0335 - Responding to Incidents and Emergencies

Students learn how to identify and respond to situations involving escapes, riots, bomb threats, fires, and medical emergencies in a correctional facility. This course is open only to students admitted to the Correctional Officer Basic Recruit Academy.

Credit Hour(s): 18 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

CJK 0422 - Dart-Firing Stun Gun

This course is a component of the Law Enforcement Florida CMS and Correctional Officer Basic Recruit Academies. It is designed to prepare students in the proper use of the Dart Firing Stun in accordance with the Florida State Statutes, the United States Constitution, and case law. It includes classroom instruction and practical physical exercises and demonstrations. This course is open only to students admitted to the Law Enforcement Florida CMS Basic Recruit Academy or Correctional Officer Basic Recruit Academy.

Credit Hour(s): 9 Clock Hours When Offered: (Offered as needed) Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take

advantage of this opportunity.

CJK 0780 - Cross-Over Law Enforcement to Corrections

This course is a component of the Corrections Cross-Over Basic Recruit Academy. This course is designed to enhance Law Enforcement recruits' awareness and understanding of corrections and to teach student skills which will enable them to cross-train into the corrections profession. This course includes classroom instruction. This course is open only to students who have successfully completed the Law Enforcement Basic Recruit Academy and passed the state certification examination for Law Enforcement.

Credit Hour(s): 16 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
Law Enforcement Basic Recruit Training Program.

Note:
*Vocational courses are not applicable to the A.A. or A.S. degree or to the College Credit Certificate without an approved articulation agreement. Vocational courses, offered in clock hours, are courses that can be used for the awarding of Career and Technical or Vocational Certificates. In addition, vocational courses may be articulated to college credit and applied to college credit certificates or A.S. degree programs. Students should work closely with an advisor to plan their studies in a way to take advantage of this opportunity.

DEA 0020 - Pre-Clinical Procedures Theory

This course is designed to provide an introduction to the dental assisting profession to include orientation to four handed dentistry and general dental office procedures including, but not limited to basic principles of disease prevention, patient data collection and assessment, and instrumentation. Emphasis is on adhering to safety guidelines as specified by OSHA.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):
DEA 0020L .

Note:
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DEA 0020L - Pre-Clinical Practice Lab

This is a comprehensive chair side competency based course. The course provides the skills practice necessary for dental assisting students entering four handed dentistry practice including but not limited to infection control, taking and recording vital signs, assisting with operative procedures, principles of preventive dentistry, instrument identification, and use and maintenance of equipment. Emphasis is on aseptic technique and clinical competency with procedures performed in a contemporary dental practice.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):
DEA 0020 , DES 0103L .

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DEA 0130 - Allied Dental Theory

This course is a general study of the scientific and clinical concepts that include additional knowledge base necessary to the practice of dental assisting. Students will study the normal and abnormal conditions of the oral cavity such as dental caries prevention, the dental caries process and recognition of various common pathological conditions. Oral pathology, histology and

embryology are included. Emphasis is on the interrelationship of the information presented with the clinical practice of dental assisting.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DEA 0803L - Clinical Practice I

This competency based clinical course provides a real world setting in which to integrate the laboratory and clinical skills learned in the classroom. The student receives closely supervised hands on training in chair side dental assisting through rotations at community dental offices. Progress is evaluated using predetermined competency guidelines. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 90 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Corequisite(s):

DEA 0020 , DEA 0020L .

Note:

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DEA 0851L - Clinical Practice III

This course is a continuation of Clinical Practice II, providing a real world setting for students to practice the training and clinical skills learned in class including x-ray film placement and cone positioning. The student is assigned to various offices in the community including specialty offices and general dentistry offices. Students assist the dentist and staff with various function of a Dental Assistant at a more advanced level of proficiency. Students must provide their own transportation and must have current CPR training along with up-to-date immunizations. Specific procedure requirements and 180 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 180 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DEA 0852L , DES 0205 , DES 0205L .

Note:

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DEA 0852L - Clinical Practice II

This course is a continuation of Clinical Practice I. It provides a real world setting for students to receive additional training in the clinical skills learned in class. Students are assigned to various offices in the community including but not limited to general dentists, oral surgeons, orthodontists, periodontists, and endodontists. Performance evaluations are utilized to measure competency and provide feedback from the local dental offices to the instructor regarding the students' competency level. Skills are strengthened in Seminar Lab. Students must provide their own transportation, current CPR training, and up-to-date immunization records. Specific procedure requirements and 150 clinical rotation hours (minimum) must be fulfilled to successfully complete this course.

Credit Hour(s): 150 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0803L , DES 0400B

Corequisite(s):
DES 0830 , DES 0830L .

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DEA 0936 - Dental Assisting Seminar

This course is designed to provide a review of materials commonly covered on the Dental Assisting National Board (DANB) Exam. Topics include but are not limited to infection control, general chair side procedures, and radiographic technique. The seminar will provide a mock board examination, and opportunities for review, problem solving, and strengthening skills. The course also serves as an opportunity for feedback from students' Clinical Practice.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
DEA 0852L , DEA 0803L , DES 0205 , DES 0205L

Corequisite(s):
DEA 0803L , DES 0206L .

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DES 0103 - Dental Materials Theory

This course is a comprehensive study of the theory of manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. The competency based lab that accompanies this course includes exercises to illustrate application and use of selected materials. Students will study various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, as well as acrylic plastics. Students will become familiar with various pieces of dental laboratory equipment and their uses.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Corequisite(s):
DES 0103L , DEA 0020L .

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DES 0103L - Dental Materials Lab

This course is a comprehensive study of the manipulation, physical and chemical properties of materials used in the diagnosis, prevention and treatment of oral disease. Emphasis is on practical application as it relates to the role of the dental assistant in the contemporary dental practice. It is a competency based lab that accompanies the theory course and includes exercises to illustrate application and uses of selected materials. Students practice the use of various materials including but not limited to impression materials, waxes, filled and unfilled resins, dental amalgams, gypsum, and acrylic plastics.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Corequisite(s):
DES 0103 , DEA 0020L .

Note:

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DES 0205 - Dental Radiology Lecture

This course is designed to introduce the theory, application and principles of radiographic exposure and processing techniques used in dentistry. Students will receive instruction including but not limited to historical data, radiation safety, exposure, processing, mounting and error prevention. Image interpretation of radiographic anatomical structures will be included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):
DES 0205L .

Note:
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DES 0205L - Dental Radiology Lab

This laboratory course assists students in radiographic performance techniques using DXTR manikins to achieve competency prior to exposure of various patients with varied dentitions. Students practice exposing, mounting, radiographic interpretation, safe darkroom procedures, identification of landmarks and distinguishing radiographic pathology from normal landmarks. Clinical radiographic skills necessary to produce diagnostic quality radiographs including bitewings, periapical radiographs, and panoramic x-rays will be covered. Emphasis is on patient and operator safety guidelines and producing diagnostic quality radiographs.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
DES 0400B , DEA 0020 , DEA 0020L

Corequisite(s):
DES 0205 .

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DES 0206L - Dental Radiology Lab II

This laboratory course assists students in additional radiographic performance techniques to include surveys on patients with varied dentitions. Students practice more advanced radiographic exposure techniques, interpretation, additional darkroom procedures, identification of landmarks and distinguishing various radiographic pathology. Clinical radiographic skills necessary to produce diagnostic quality x-rays including but not limited to bitewings, periapical radiographs, and panoramic surveys on actual patients will be covered. Emphasis is placed on patient and operator safety guidelines and producing diagnostic quality radiographs during this course.

Credit Hour(s): 90 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
DES 0400B , DEA 0020 , DEA 0020L , DES 0205L

Corequisite(s):
DEA 0851L .

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DES 0324 - Interpersonal Communications Skills

This course is designed to implement interpersonal and effective communication skills in the practice of dentistry. It includes team building strategies, oral and written communications skills with the correct use of terminology commonly used in dentistry. Professionalism in verbal and nonverbal communications is emphasized. Students will be introduced to the legal and ethical scope of responsibilities for dental assistants and interpersonal relations in the dental office. Providing oral health instructions and post operative instructions for patients will be introduced. Scenario-based role playing is used to augment student learning of course content.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:
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DES 0400B - Dental Anatomy

This course provides a detailed study of the orofacial and related structures of the head and neck including, but not limited to the eruption, identification and function of the human dentition, study of bony, circulatory, muscular and nervous systems of the head, neck and surrounding structures associated with the oral cavity. A brief introduction to oral histology and embryology will be included.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Note:
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DES 0501 - Dental Practice Management

This course includes theory and content relating to practical administrative duties performed in the dental office. Lectures and role playing activities are related to the responsibilities of the dental assistant. Topics include but are not limited to appointment scheduling, billing, collections, record keeping, clerical and dental supply inventory. Students are introduced to the use of dental practice software with hands on computer experience. Legal responsibilities, interpersonal relations, and interview skills are included.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
DES 0205 , DES 0205L

Corequisite(s):
DEA 0936 .

Note:
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DES 0602 - Pharmacology and Dental Office Emergencies

This course is designed to familiarize the dental assisting student with the basic concepts and considerations regarding pharmacology and pharmaceutics used in dentistry. Topics presented include nitrous oxide monitoring, emergency procedures and protocol. Lectures will include recognition of emergency conditions in the dental office, not limited to syncope, anaphylaxis, and cardiovascular incidents. Emphasis is placed on the role of the dental assistant in the prevention and management of dental office emergencies.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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DES 0830 - Expanded Function Theory

This course introduces the dental assisting student to the dental specialty practices and more advanced clinical skills. It also provides the theory of dental specialty practice administration as it relates to the role of the dental assistant including ethical and legal ramifications. Lectures relate topics including but not limited to dental specialty procedures, instruments used in the specialty practices and duties delegated to dental assistants according to the rules and regulations of the Florida Dental Practice Act. Role playing and problem solving activities using case studies relate to duties delegated to dental assistants.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830L .

Note:

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DES 0830L - Skills Seminar

This laboratory course accompanies the clinical practice lecture course DES 0830 and provides opportunity for students to practice application of the duties delegated to dental assistants according to the Florida Dental Practice Act. Students become more proficient in more advanced skills. Competencies containing information and behavioral objectives allow students to master each skill before advancing to the next.

Credit Hour(s): 60 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

DEA 0020 , DEA 0020L , DES 0400B

Corequisite(s):

DES 0830 .

Note:

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DES 0844 - Dental Science

This course is a general study in biomedical sciences of preventive dentistry to familiarize the dental assisting student with basic principles of microbiology, basic body structures, and their functions and effects as manifested in the oral cavity. The course also covers the effects of nutrition and the role of microorganisms in dental health and blood borne pathogens.

Credit Hour(s): 30 Clock Hours When Offered: (Offered as needed) Note:

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FFP 0010 - Firefighting I

This course is the first part of the Basic Fire Recruit Academy and prepares students for a career as a volunteer firefighter. Classroom instruction includes a variety of fire related topics which are reinforced and enhanced through practical skills activities. Upon completion, the student is eligible to test for certification as a volunteer firefighter through the Florida State Fire College and may elect to continue training in Firefighter II to pursue state certification as a career firefighter. Permission of the Public Safety Division is required.

Credit Hour(s): 225 Clock Hours When Offered: (Offered as needed) Corequisite(s):

FFP 1140 .

Note:

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FFP 0020 - Firefighting II

This course is the second part of the Basic Fire Recruit Academy and prepares students for a career as a firefighter. The delivery of instruction includes a variety of training in practical skills necessary for the mastery of the basic competencies required in the program. Upon successful completion of this course, the student is eligible to take the Bureau of Fire Standards and Training written and practical examination. Permission of the Public Safety Division is required.

Credit Hour(s): 225 Clock Hours When Offered: (Offered as needed) Prerequisite(s):

FFP 0010 .

Note:

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PMT 0011 - Welder Helper

This course is an introductory course in welding covering basic of gas and arc welding, shop math, shop safety precaution and the use of safety procedures and protective equipment, practical and theoretical training in the use of shield metal arc welding (SMAW) and oxy-acetylene welding principles, practices and equipment.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Note:

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PMT 0012 - Welder, Shielded Metal Arc

This course shielded metal arc welding(SMAW) principles to include visual examination skills, drawing and welding symbols, metal identification, arc cutting principles and practices, language and terminology, critical thinking skills, shop safety precaution, health, environmental management and regulatory compliance.

Credit Hour(s): 250 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
PMT 0011 .

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PMT 0013 - Welder, Gas-Metal Arc

This course covers gas metal arc welding (GMAW) principles to basic and intermediate skills development, information technology tools, importance of ethical and legal responsibilities, and personal money management concepts, procedures and strategies.

Credit Hour(s): 125 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
PMT 0012.

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PMT 0014 - Welder, Flux Cored Arc

This course covers flux core arc welding (FCAW) principles and skills development, organization roles, leader and team work development, employability and entrepreneurship skills.

Credit Hour(s): 100 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
PMT 0013 .

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PMT 0015 - Welder, Gas-Tungsten Arc

This course covers gas tungsten arc welding (GTAW) principles and basic and intermediate skills development.

Credit Hour(s): 175 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
PMT 0014 .

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PMT 0016 - Welder, Pipe

This course covers pipe welding principles and basic and intermediate skills development.

Credit Hour(s): 270 Clock Hours When Offered: (Offered as needed) Prerequisite(s):
PMT 0015

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